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(54) Title: TISSUE SPECIFIC GENES OF DIAGNOSTIC IMPORT

(57) **Abstract:** The present invention relates to a composition comprising a plurality of polynucleotides which are cell and/or tissue specific and which may be used in their entirety or in part as references in producing an expression profile that defines a metabolic or developmental process, treatment, condition, disease, or disorder.

TISSUE SPECIFIC GENES OF DIAGNOSTIC IMPORT

TECHNICAL FIELD

The present invention relates to a composition comprising a plurality of polynucleotides which

5 are cell and/or tissue specific. These polynucleotides may be used to define and direct a metabolic or

developmental process, to identify or to monitor the progression of a condition, disease, or disorder, or

to evaluate and monitor the efficacy of a treatment protocol.

BACKGROUND ART

Array technology can provide a simple way to explore the expression of a single polymorphic

10 gene or the expression profile of a large number of related or unrelated genes. When the expression of

a single gene is examined, arrays are employed to detect the expression of a specific gene or its

variants. When an expression profile is examined, arrays provide a platform for examining which

genes are tissue specific, direct the differentiation of a cell type or tissue, carry out housekeeping

functions, function as parts of a signaling cascade, or characterize a particular genetic predisposition,

15 condition, disease, or disorder.

The application of gene expression profiling is particularly relevant to improving diagnosis and

prognosis of disease. However, in order to determine whether expression of a particular gene in a

particular disease is significant, it is useful to provide a reference set of tissue and cell specific genes

against which genes expressed during the disease process may be compared. For example, both the

20 levels and sequences expressed in brain tumors may be compared with the levels and sequences

expressed in normal brain tissue. These comparisons may be made on a single array by incorporating a

particular tissue or cell specific reference set alongside novel sequences or on multiple arrays, each of

which contains at least some subset of the known reference set.

The present invention satisfies a need in the art in that it provides such a reference set. The

25 reference set may be used in its entirety or in part to produce an expression profile that may be used to

define and direct a metabolic or developmental process, to identify or to monitor the progression of a

condition, disease, or disorder, or to evaluate and monitor the efficacy of a treatment protocol.

SUMMARY

The present invention provides a plurality of tissue or cell specific polynucleotides which may

30 be used on an array to produce an expression profile. This profile may define expression of the

polynucleotides in normal tissue, during a particular metabolic or developmental process or during the

onset, progression, or treatment of a human condition, disease, or disorder. In one embodiment, these

polynucleotides are selected from SEQ ID NOs:1-416.

The invention also provides a plurality of polynucleotides which display tissue or cell specific

expression and are selected from: a) SEQ ID NOs:209-218 and 1-10, cell specific polynucleotides of heart and fragments thereof; b) SEQ ID NOs:219-249 and 11-41, cell specific polynucleotides of skeletal muscle and fragments thereof; c) SEQ ID NOs:250-251and 42-43, cell specific polynucleotides of uterus and fragments thereof; d) SEQ ID NOs:252-256 and 44-48, cell specific polynucleotides of

5 ovary and fragments thereof; e) SEQ ID NOs:257-263 and 49-55, cell specific polynucleotides of stomach and fragments thereof; f) SEQ ID NOs:264-283 and 56-75, cell specific polynucleotides of intestine and fragments thereof; g) SEQ ID NOs:284-293 and 76-85, cell specific polynucleotides of lung and fragments thereof; h) SEQ ID NOs:294-345 and 86-137, cell specific polynucleotides of liver and fragments thereof; i) SEQ ID NOs:346-356 and 138-148, cell specific polynucleotides of kidney

10 and fragments thereof; j) SEQ ID NOs:357-374 and 149-166, cell specific polynucleotides of pancreas and fragments thereof; and k) SEQ ID NOs:375-416 and 167-208, cell specific polynucleotides of brain and fragments thereof. In one aspect, the plurality of polynucleotides are immobilized on a substrate.

In another embodiment, the expression of a plurality of polynucleotides is used to detect

15 expression in a tissue. In one aspect, the tissue is embryonic stem cells which are differentiating into brain, heart, kidney, liver, lung, muscle or pancreatic tissues. In a second aspect, the tissue is a biopsy from diseased brain, heart, kidney, liver, lung, muscle, ovarian, pancreatic, small intestine, stomach, or uterine tissues which is being diagnosed for a cancer or immune or inflammatory disease or subjected to forensic analysis. In a third aspect, the point of origin of a metastatic cancer is determined.

20 In another embodiment, the polynucleotides are used in high throughput methods of screening molecules or compounds to identify a ligand, the method comprising combining a polynucleotide with molecules or compounds under conditions to allow specific binding and detecting specific binding, thereby identifying a ligand which specifically binds to the polynucleotide. The molecules or compounds to be screened are selected from DNA molecules, RNA molecules, PNAs, mimetics,

25 peptides, and proteins.

In another embodiment, the invention provides a substantially purified polynucleotide selected from SEQ ID NOs:212, 228, 233, 259, 271, 287, 316-319, 324, 370, 379, 380, 383, 410, and 412 or a fragment thereof, SEQ ID NO:4, 20, 25, 51, 63, 79, 108-111, 116, 162, 171, 172, 175, 202, and 204. In one aspect, the polynucleotide selected from SEQ ID NOs:NOs:212, 228, 233, 259, 271, 287,

30 316-319, 324, 370, 379, 380, 383, 410, and 412 or a fragment thereof, SEQ ID NO:4, 20, 25, 51, 63, 79, 108-111, 116, 162, 171, 172, 175, 202, and 204 is used in an expression vector transformed into a host cell to produce a protein or a portion thereof by culturing the host cell under conditions for the expression of protein and recovering the protein from the host cell culture.

In a third embodiment, the invention provides a protein or a portion thereof. In one aspect, the

35 protein is used in a high throughput method to screen large numbers of molecules or compounds to

identify at least one ligand which specifically binds the protein, the method comprising combining the protein with the molecules or compounds under conditions to allow specific binding and detecting specific binding, thereby identifying a ligand which specifically binds the protein. In a second aspect, the protein is used to purify a ligand, the method comprising combining the protein with a sample under

5   conditions to allow specific binding, recovering the bound protein, and separating the protein from the ligand, thereby obtaining purified ligand. The molecules or compounds screened or purified may be selected from DNA molecules, RNA molecules, PNAs, mimetics, peptides, proteins, agonists, antagonists, antibodies or their fragments, immunoglobulins, inhibitors, drug compounds, and pharmaceutical agents. Any of these molecules or compounds may have diagnostic or therapeutic

10   applications.

DESCRIPTION OF THE SEQUENCE LISTING AND TABLES

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15   file or records, but otherwise reserves all copyright rights whatsoever.

The Sequence Listing is a compilation of polynucleotides obtained by sequencing and extension of clone inserts of different cDNAs. Each sequence is identified by a sequence identification number (SEQ ID NO or SEQ ID) and by the clone number (Incyte ID) from which it was obtained.

Table 1 lists the fragments and extended polynucleotides by their SEQ ID NO and cDNA

20   respectively, tissue, and by the description associated with at least a fragment of a homologous polynucleotide in GenBank. The descriptions were obtained using the sequences of the Sequence Listing and BLAST analysis.

Table 2 lists the source of the RNAs used to produce target polynucleotides for hybridization to the UNIGEM V microarray (Incyte Genomics, Palo Alto CA). The columns present the Source No,

25   Tissue, Age, Ethnicity/Sex, Cause of Death, and Conditions or Diseases, as known for each donor.

Table 3 shows the data for each of the clones across each of the tissues used in the experiments. The columns present Clone ID and the tissues (with source number)--heart, skeletal muscle, uterus, stomach, small intestine, lung, liver, kidney, pancreas, spleen and brain. This data was produced using GEMTOOLS software (Incyte Genomics).

30   Table 4 presents the analysis of variance (ANOVA) for the data. The columns present Clone ID, Var. Betw (variance between), Var. Within (variance within), F (value), and Probability. These values were produced using batch ANOVA (Sokal and Rohlf (1969) Biometry; the Principles and Practice of Statistics in Biological Research, WH Freeman, San Francisco CA) and EXCEL98 software (Microsoft, Seattle WA).

35   Table 5 shows the cell and tissue specificity of the polynucleotides across tissues (heart,

skeletal muscle, uterus, sto   , small intestine, lung, liver, kidney, pancre⬤pleen and brain). The
cell and tissue specific groupings were produced using mean values [mean (tissue)- mean (entire set)]
and grouped using EXCEL98 software (Microsoft).

DESCRIPTION OF THE INVENTION

5   Definitions

The term "array" refers to an ordered arrangement of hybridizable polynucleotides. These are
arranged so that there are a "plurality" of polynucleotides, preferably at least one polynucleotide,
preferably at least 100 polynucleotides, and more preferably at least 1,000 polynucleotides, and even
more preferably at least 10,000 polynucleotides on a 1 cm^2 substrate. The maximum number of
10   polynucleotides is unlimited, but is at least 100,000. Furthermore, the signal from each of the
hybridized polynucleotides is individually distinguishable.

A "polynucleotide" refers to a chain of nucleotides. Preferably, the chain has from about 15 to
10,000 nucleotides and more preferably from about 400 to 6,000 nucleotides. The term "probe" refers
to a probe polynucleotide capable of hybridizing with a target polynucleotide to form a hybridization
15   complex. In most instances, the sequences of the probe and target polynucleotides will be
complementary (no mismatches) when aligned. In some instances, there may be up to a 10% mismatch.

"Fragment" refers to any part of an Incyte clone or polynucleotide which retains a useful
characteristic. Useful fragments may be used in hybridization technologies, to identify or purify··
ligands, or as a therapeutic to regulate replication, transcription or translation.

20   "Ligand" refers to any agent, molecule, or compound which will bind specifically to a
complementary site on a polynucleotide or protein. Such ligands stabilize or modulate the activity of
polynucleotides or proteins and may be composed of at least one of the following: inorganic and organic
substances including nucleic acids, proteins, carbohydrates, fats, and lipids.

"Purified" refers to any molecule or compound that is removed, isolated, or separated from its
25   natural environment and is at least about 60% free, and more preferably about 90% free, from other
components with which it is naturally associated.

"Specific binding" refers to a special and precise interaction between two molecules which is
dependent upon a particular structure such as molecular side groups. For example, the hydrogen
bonding between two single stranded nucleic acids or the binding between an epitope or a protein and
30   an agonist, antagonist, or antibody.

"Sample" is used in its broadest sense. A sample containing polynucleotides may comprise a
bodily fluid; an extract from a cell, chromosome, organelle, or membrane isolated from a cell; genomic
DNA, RNA, or cDNA in solution or bound to a substrate; a cell; a tissue; a tissue print; a finger print,
a hair, and the like.

35   "Portion" refers to any part of a protein used for any purpose, but especially for the screening

of molecules or compounds ● identify those which specifically bind to that ● on and for producing antibodies.

    The phrase "polynucleotide encoding a protein" refers to nucleic acid sequence that closely aligns with a sequence which encodes a conserved protein motif or domain that were identified by

5 employing analyses well known in the art. These analyses include Hidden Markov Models (HMMs) such as PFAM (Krogh (1994) J Mol Biol 235:1501-1531; Sonnhamer et al. (1988) Nucl Acids Res 26:320-322), BLAST (Basic Local Alignment Search Tool; Altschul (1993) J Mol Evol 36: 290-300; and Altschul et al. (1990) J Mol Biol 215:403-410), or other analytical tools such as BLIMPS (Henikoff et al. (1998) Nucl Acids Res 26:309-12). Additionally, "polynucleotide encoding a protein"

10 may refer to a polynucleotide that is expressed in or associated with specific human metabolic processes, conditions, disorders, or diseases.

    "Cell specific", as defined herein, refers to those polynucleotides which occur at a statistically significant level in more than one tissue. The commonality between the tissues may be ascribed to the types of cells that are an integral part of or would be expected to be found in a particular tissue, e.g.,

15 blood cells, nerve cells, endothelial cells, and the like.

The Invention

    The present invention provides a plurality of tissue or cell specific polynucleotides which may be used on an array to produce an expression profile. This profile may define expression of these polynucleotides in normal tissue, during a particular metabolic or developmental process or during the

20 onset, progression, or treatment of a human condition, disease, or disorder. These polynucleotides represent known and novel genes normally expressed in the cells or tissues of the brain, heart, intestine, kidney, liver, lung, smooth muscle, ovary, pancreas, spleen, stomach, or uterus. The expression of these polynucleotides may be compared to the expression of other known or novel genes found on an array. The plurality of polynucleotides, the entire reference set, comprises SEQ ID NOs:1-416. Tissue

25 or cell-specific reference sets may be selected from SEQ ID NOs:209-218 and 1-10, cell specific polynucleotides of heart and fragments thereof; b) SEQ ID NOs:219-249 and 11-41, cell specific polynucleotides of skeletal muscle and fragments thereof; c) SEQ ID NOs:250-251 and 42-43, cell specific polynucleotides of uterus and fragments thereof; d) SEQ ID NOs:252-256 and 44-48, cell specific polynucleotides of ovary and fragments thereof; e) SEQ ID NOs:257-263 and 49-55, cell

30 specific polynucleotides of stomach and fragments thereof; f) SEQ ID NOs:264-283 and 56-75, cell specific polynucleotides of intestine and fragments thereof; g) SEQ ID NOs:284-293 and 76-85, cell specific polynucleotides of lung and fragments thereof; h) SEQ ID NOs:294-345 and 86-137, cell specific polynucleotides of liver and fragments thereof; i) SEQ ID NOs:346-356 and 138-148, cell specific polynucleotides of kidney and fragments thereof; j) SEQ ID NOs:357-374 and 149-166, cell

35 specific polynucleotides of pancreas and fragments thereof; and k) SEQ ID NOs:375-416 and 167-208,

cell specific polynucleotide ● rain and fragments thereof. The plurality of ● ynucleotides is arrayed on a substrate, preferably a microarray or used as probes.

The invention also provides a substantially purified polynucleotide selected from SEQ ID NOs:212, 228, 233, 259, 271, 287, 316-319, 324, 370, 379, 380, 383, 410, and 412 or a fragment

5 thereof, SEQ ID NO:4, 20, 25, 51, 63, 79, 108-111, 116, 162, 171, 172, 175, 202, and 204. These polynucleotides may be used in an expression vector transformed into a host cell to produce a protein or a portion thereof by culturing the host cell under conditions for the expression of protein and recovering the protein from the host cell culture.

The microarray can be used for large scale genetic or gene expression analysis of a large

10 number of novel target polynucleotides. These targets are prepared by methods well known in the art and are from mammalian cells or tissues which are in a certain stage of development or differentiation; have been treated with a known molecule or compound, such as a cytokine, growth factor, a drug, and the like; or have been extracted or biopsied from a mammal with a known or unknown condition, disorder, or disease before or after treatment. Specifically, the plurality of polynuleotides are useful to

15 determine the differentiation of embryonic stem cells toward brain, heart, kidney, liver, lung, muscle or pancreatic tissues or to determine whether a cancer is metastatic or its source by analyzing biopsied tissue from diseased brain, heart, kidney, liver, lung, muscle, ovarian, pancreatic, small intestine, stomach, or uterine tissues. The plurality of polynucleotides may be used during the diagnosis of a cancer, an immunopathology, a neuropathology, and the like.

20 The target polynucleotides are hybridized to the probe polynucleotides for the purpose of defining a novel gene profile associated with that developmental stage, treatment, condition, disorder or disease. Subsequently, the gene profile can be used for diagnosis, prognosis, or monitoring of treatments where altered expression of known and novel genes is associated with a cancer, an immunopathology, a neuropathology, and the like. In some cases, a gene profile can be used to

25 investigate an individual's predisposition to a condition, disorder or disease such as a cancer, an immunopathology, a neuropathology, and the like.

When the polynucleotides of the invention are employed as hybridizable polynucleotides on a microarray, the polynucleotides are organized in an ordered fashion so that each polynucleotide is present at a specified location on the substrate. Because the probe polynucleotides are at specified

30 locations on the substrate, their hybridization patterns and intensities can be compared with the hybridization patterns and intensities of other known and novel polynucleotides to create an expression profile. Such a profile, interpreted in terms of expression levels of the cell and tissue specific, known, and novel genes can be correlated with a particular metabolic process, developmental stage, treatment, condition, disorder, disease, or stage of disease.

35 The plurality of polynucleotides can also be used to identify or purify a molecule or compound

which specifically binds to ●st one of the polynucleotides. These molec●may be identified from a sample or in high throughput mode from a large number of molecules and compounds including mRNAs, cDNAs, genomic fragments, and the like. Typically, the molecules or compounds will be of particular diagnostic or therapeutic interest.

5   If nucleic acid molecules in a sample enhance the hybridization background, it may be advantageous to remove the offending molecules. One method for removing such molecules is by hybridizing the sample with immobilized probe polynucleotides and washing away those molecules that do not form hybridization complexes. At a later point, hybridization complexes can be dissociated, thereby releasing those molecules which specifically bind the probe polynucleotides.

10   Method for Selecting Polynucleotide Probes

There are numerous different ways to select polynucleotides. Some of the more common ones include selecting probes from genes which are well known in the literature to have an association with a particular condition, disorder, or disease, which have a common functional characteristic such as the presence of a particular motif or domain or a signal peptide, which are

15   expressed in a particular cell type or tissue such as blood or bone marrow, and the like.

Preferably, the probes are non-redundant; therefore, no more than one probe represents a particular gene. Control sequences, however, may be selected specifically for their redundancy.

Polynucleotides of the composition may be manipulated to optimize their performance in‘ hybridization technologies. Polynucleotide selection may be optimized by examining the sequences

20   using a computer algorithm to identify fragments lacking potential secondary structure. Computer algorithms such as those employed in Vector NTI software (Informax, N. Bethesda MD) or LASERGENE software (DNASTAR, Madison WI) are well known in the art. These programs search nucleic acid sequences to identify stem loop structures and tandem repeats and to analyze G+C content of the sequence. In mammalian arrays, those sequences with a G+C content greater than 60% may be

25   excluded. Alternatively, polynucleotides can be optimized under experimental conditions to determine whether polynucleotide probes and their complementary targets hybridize optimally.

Where the greatest numbers of non redundant polynucleotides are desired, the polynucleotides may be compared with clustered or assembled sequences to assure that each polynucleotide is derived from a different gene. To obtain a longer or different probe for a particular gene, the polynucleotide

30   may be physically extended utilizing the partial nucleotide sequences derived from the Incyte clone and employing the XL-PCR kit (Applied Biosystems, Foster City CA) or other means known in the art.

Polynucleotide Probes

Polynucleotide probes can be genomic DNA or cDNA or mRNA, or any RNA-like or DNA-like material, such as peptide nucleic acids, branched DNAs and the like. They may be the sense

35   or antisense strand. Where targets are double stranded, probes may be either sense or antisense

strands. Where targets are ●e stranded, probes are complementary sing ● ●ands.

In one embodiment, polynucleotide probes are cDNAs. The size of the cDNAs may vary and is preferably from 15 to 10,000 nucleotides, more preferably from 60 to 4000 nucleotides, and most preferably from 200-600 nucleotides.

5   In another embodiment, probes are plasmids. In this case, the cDNA sequence of interest is the insert sequence. Excluding the vector DNA and regulatory sequences, cDNA size may vary preferably from 15 to 10,000 nucleotides, more preferably from 60 to 4000 nucleotides, and most perferably from 200-600 nucleotides.

Polynucleotide probes can be prepared by a variety of synthetic or enzymatic methods well

10 known in the art. Probes can be synthesized, in whole or in part, using chemical methods well known in the art (Caruthers et al. (1980) Nucleic Acids Symp Ser (7):215-233). Alternatively, probes can be produced enzymatically or recombinantly, by in vitro or in vivo transcription.

Nucleotide analogues can be incorporated into the probes by methods well known in the art. The only requirement is that the incorporated nucleotide analogues of the probe must base pair with

15 target nucleotides. For example, certain guanine nucleotides can be substituted with hypoxanthine which base pairs with cytosine residues. However, these base pairs are less stable than those between guanine and cytosine. Alternatively, adenine nucleotides can be substituted with 2,6-diaminopurine which can form stronger base pairs than those between adenine and thymidine.

Additionally, probes can include nucleotides that have been derivatized chemically or

20 enzymatically. Typical chemical modifications include derivatization with acyl, alkyl, aryl or amino groups.

Probes can be synthesized on a substrate. Synthesis on the surface of a substrate may be accomplished using a chemical coupling procedure and a piezoelectric printing apparatus as described by Baldeschweiler et al. (PCT /WO95/251116). Alternatively, the probe can be synthesized on a

25 substrate surface using a self-addressable electronic device that controls when reagents are added as described by Heller et al. (USPN 5,605,662).

Complementary DNA (cDNA) can be arranged and then immobilized on a substrate. Probes can be immobilized by covalent means such as by chemical bonding procedures or UV. In one such method, a cDNA is bound to a glass surface which has been modified to contain epoxide or aldehyde

30 groups. In another case, a cDNA probe is placed on a polylysine coated surface and then UV cross-linked as described by Shalon et al. (PCT/WO95/35505; incorporated herein by reference). In yet another method, a DNA is actively transported from a solution to a given position on a substrate by electrical means (Heller et al. supra). Alternatively, probes, clones, plasmids or cells can be arranged on a filter. In the latter case, cells are lysed, proteins and cellular components degraded, and the DNA

35 is coupled to the filter by UV cross-linking.

Furthermore, prob   not have to be directly bound to the substr   ut rather can be bound to the substrate through a linker group. The linker groups are typically about 6 to 50 atoms long to provide exposure of the attached probe. Preferred linker groups include ethylene glycol oligomers, diamines, diacids and the like. Reactive groups on the substrate surface react with a terminal group of

5   the linker to bind the linker to the substrate. The other terminus of the linker is then bound to the probe.

Probes can be attached to a substrate by sequentially dispensing reagents for probe synthesis on the substrate surface or by dispensing preformed DNA fragments to the substrate surface. Typical dispensers include a micropipette delivering solution to the substrate with a robotic system to control

10 the position of the micropipette with respect to the substrate. There can be a multiplicity of dispensers so that reagents can be delivered to the reaction regions efficiently.

<u>Sample Preparation</u>

In order to conduct sample analysis, a sample containing targets is provided. The samples can be any sample containing targets and obtained from any bodily fluid (blood, urine, saliva, phlegm,

15 gastric juices, etc.), cultured cells, biopsies, or other tissue or forensic preparations.

DNA or RNA can be isolated from a sample according to any of a number of methods well known to those of skill in the art. For example, methods of purification of nucleic acids are described in Tijssen (1993) <u>Laboratory Techniques in Biochemistry and Molecular Biology: Hybridization With Nucleic Acid Probes, Part I. Theory and Nucleic Acid Preparation</u>, Elsevier Science, New York NY).

20 In one case, total RNA is isolated using TRIZOL reagent (Life Technologies, Gaithersburg MD), and mRNA is isolated using oligo d(T) column chromatography or glass beads. In one alternative, when targets are derived from an mRNA, targets can be a DNA reverse transcribed from an mRNA, an RNA transcribed from that DNA, a DNA amplified from that DNA, an RNA transcribed from the amplified DNA, and the like. When target is derived from DNA, target can be DNA amplified from DNA, or

25 RNA reverse transcribed from DNA. In yet another alternative, targets are prepared by more than one method.

When targets are amplified it is desirable to amplify the nucleic acids in the sample and to maintain their relative abundances, including low abundance transcripts. Total mRNA can be amplified by reverse transcription using a reverse transcriptase and a primer consisting of oligo d(T)

30 and a sequence encoding the phage T7 promoter to provide a single stranded DNA template. The second DNA strand is polymerized using a DNA polymerase and an RNAse which assists in breaking up the DNA/RNA hybrid. After synthesis of the double stranded DNA, T7 RNA polymerase can be added, and RNA transcribed from the second DNA strand template as described by Van Gelder et al. (USPN 5,545,522). RNA can be amplified <u>in vitro</u>, <u>in situ</u> or <u>in vivo</u> (Eberwine, USPN 5,514,545).

35   It is also advantageous to include quantitation controls to assure that amplification and labeling

procedures do not change the the abundance of transcripts in a sample. For this purpose, a sample is spiked with a known amount of control nucleic acid, and the probes include control probes which specifically hybridize with the control nucleic acid. After hybridization and processing, the hybridization signals should reflect accurately the amounts of control nucleic acid added to the sample.

5   Prior to hybridization, it may be desirable to fragment the nucleic acids of the sample. Fragmentation improves hybridization by minimizing secondary structure and cross-hybridization among the nucleic acids in the sample or with noncomplementary probes. Fragmentation can be performed by mechanical or chemical means.

The nucleic acids may be labeled with one or more labeling moieties to allow for detection and
10   quantitation of hybridization complexes. The labeling moieties can include compositions that can be detected by spectroscopic, photochemical, biochemical, bioelectronic, immunochemical, electrical, optical or chemical means. The labeling moieties include radioisotopes, such as ^{32}P, ^{33}P or ^{35}S; chemiluminescent compounds, labeled binding proteins, heavy metal atoms, spectroscopic markers such as fluorescent markers and dyes; magnetic labels, linked enzymes, mass spectrometry tags, spin labels,
15   electron transfer donors and acceptors, and the like.

Exemplary dyes include quinoline dyes, triarylmethane dyes, phthaleins, azo dyes, cyanine dyes, and the like. Preferably, fluorescent markers absorb light above about 300 nm, more preferably above 400 nm, and usually emit light at wavelengths at least greater than 10 nm above the wavelength of the light absorbed. Preferred fluorescent markers include fluorescein, phycoerythrin, rhodamine,
20   lissamine, and Cy3 and Cy5.

Labeling can be carried out during an amplification reaction, such as polymerase chain and in vitro transcription reactions; by nick translation, or by 5' or 3'-end-labeling reactions. In one case, labeled nucleotides are used in an in vitro transcription reaction. When the label is incorporated after or without an amplification step, the label is incorporated either by using a terminal transferase or a
25   kinase on the 5' end of the target polynucleotide and then incubating overnight with a labeled oligonucleotide in the presence of T4 RNA ligase.

Alternatively, the labeling moiety can be incorporated after hybridization once a probe/target complex has formed. In one case, biotin is first incorporated during an amplification step as described above. After the hybridization reaction, unbound nucleic acids are rinsed away so that the only biotin
30   remaining bound to the substrate is that attached to targets that are hybridized to probes. Then, an avidin-conjugated fluorophore, such as avidin-phycoerythrin, that binds with high affinity to biotin is added. In another case, the labeling moiety is incorporated by intercalation into preformed target/probe complexes. In this case, an intercalating dye such as a psoralen-linked dye can be employed.

Screening Assays

35   Probes or polynucleotides may be used to screen a library of molecules or compounds for

specific binding affinity. T●braries may be DNA molecules, RNA mole●, PNAs, peptides, proteins such as transcription factors, enhancers, repressors, and other organic or inorganic ligands which regulate activities such as replication, transcription, or translation of polynucleotides in the biological system. The assay involves combining the probe with the library of molecules or compounds

5   under conditions that allow specific binding, and detecting specific binding to a ligand which specifically binds the probe.

Similarly, a protein or a portion thereof transcribed and translated from a probe may be used to screen libraries of molecules or compounds in any of a variety of screening assays. The protein or portion thereof may be free in solution, affixed to an abiotic or biotic substrate, borne on a cell surface,

10   or located intracellularly. Specific binding between the protein and a ligand may be measured. Depending on the kind of library being screened, the assay may be used to identify DNA, RNA, or PNAs, agonists, antagonists, antibodies, immunoglobulins, inhibitors, mimetics, peptides, proteins, drugs, or any other ligand, that specifically binds the protein.

Purification of Ligand

15   Probes may be used to purify a ligand from a sample. A method for using a probe to purify a ligand would involve combining the probe with a sample under conditions to allow specific binding, detecting specific binding, recovering the bound protein, and using an appropriate agent to separate the polynucleotide from the purified ligand.

Similarly, the encoded protein or a portion thereof may be used to purify a ligand from a

20   sample. A method for using a protein or a portion thereof to purify a ligand would involve combining the protein or a portion thereof with a sample under conditions to allow specific binding, detecting specific binding between the protein and ligand, recovering the bound protein, and using an appropriate agent to separate the protein from the purified ligand.

Hybridization and Detection

25   Hybridization causes a denatured polynucleotide probe and a denatured complementary target to form a stable duplex through base pairing. Hybridization methods are well known to those skilled in the art. (See Ausubel, supra, units 2.8-2.11, 3.18-3.19 and 4.6-4.9.) Conditions can be selected for hybridization where completely complementary probe and target can hybridize, i.e., each base pair must interact with its complementary base pair. Alternatively, conditions can be selected where probe

30   and target have mismatches of up to about 10% but are still able to hybridize. Suitable conditions can be selected by varying the concentrations of salt in the prehybridization, hybridization, and wash solutions or by varying the hybridization and wash temperatures. With some substrates, temperature can be decreased by adding formamide to the prehybridization and hybridization solutions.

Hybridization can be performed at low stringency with buffers, such as 5xSSC with 1%

35   sodium dodecyl sulfate (SDS) at 60°C, which permits hybridization between probe and target

sequences that contain some mismatches to form probe/target complexes. Subsequent washes are performed at higher stringency with buffers such as 0.2xSSC with 0.1% SDS at either 45°C (medium stringency) or 68°C (high stringency), to maintain hybridization of only those probe/target complexes that contain completely complementary sequences. Background signals can be reduced by the use of detergents such as SDS, Sarcosyl, or TRITON X-100 (Sigma-Aldrich, St. Louis MO) or a blocking agent, such as salmon sperm DNA.

Hybridization specificity can be evaluated by comparing the hybridization of control probe to target sequences that are added to a sample in a known amount. The control probe may have one or more sequence mismatches compared with the corresponding target. In this manner, it is possible to evaluate whether only complementary probes are hybridizing to the targets or whether mismatched hybrid duplexes are forming.

Hybridization reactions can be performed in absolute or differential hybridization formats. In the absolute hybridization format, probes from one sample are hybridized to microarray probes, and signals detected after hybridization complexes form. Signal strength correlates with probe levels in a sample. In the differential hybridization format, differential expression of a set of genes in two biological samples is analyzed. Probes from the two samples are prepared and labeled with different labeling moieties. A mixture of the two labeled targets is hybridized to the microarray probes, and signals are examined under conditions in which the emissions from the two different labels are individually detectable. Targets in the microarray that are hybridized to substantially equal numbers of probes derived from both biological samples give a distinct combined fluorescence (Shalon, PCT/WO95/35505). In a preferred embodiment, the labels are fluorescent labels with distinguishable emission spectra, such as a lissamine conjugated nucleotide analog and a fluorescein conjugated nucleotide analog. In another embodiment Cy3 and Cy5 fluorophores (Amersham Pharmacia Biotech, Piscataway NJ) are employed.

After hybridization, the microarray is washed to remove nonhybridized polynucleotides, and complex formation between the hybridizable array probes and the targets is examined. Methods for detecting complex formation are well known to those skilled in the art. In a preferred embodiment, the probes are labeled with a fluorescent label, and measurement of levels and patterns of fluorescence indicative of complex formation is accomplished by fluorescence microscopy, preferably confocal fluorescence microscopy. An argon ion laser excites the fluorescent label, emissions are directed to a photomultiplier, and the amount of emitted light is detected and quantitated. The detected signal should be proportional to the amount of probe/target complexes at each position of the microarray. The fluorescence microscope can be associated with a computer-driven scanner device to generate a quantitative two-dimensional image of hybridization intensity. The scanned image is examined to determine the abundance/expression level of hybridized probe.

Typically, microar●uorescence intensities can be normalized to●into account variations
in hybridization intensities when more than one microarray is used under similar test conditions. In a
preferred embodiment, individual polynucleotide probe/target complex hybridization intensities are
normalized using the intensities derived from internal normalization controls contained on each
5   microarray.

Expression Profiles

This section describes an expression profile using the polynucleotides of this invention. The
reference set can be used as part of a expression profile which detects changes in the expression of
novel genes whose transcripts are modulated in a particular metabolic response, treatment, condition,
10   disorder, or disease. These genes will include genes whose altered expression is correlated with a
cancer, an immunopathology, a neuropathology, and the like.

The expression profile comprises a plurality of detectable hybridization complexes. Each
complex is formed by hybridization of one or more probes to one or more complementary targets. At
least one of the probes, preferably a plurality of probes, is hybridized to a complementary target
15   forming, at least one and preferably, a plurality of complexes. A complex is detected by incorporating
at least one labeling moiety. The expression profiles provide "snapshots" that can show unique
expression patterns that are characteristic of a metabolic process, treatment, condition, disorder or
disease.

After performing hybridization experiments and detecting signals from a microarray, particular
20   probes can be identified and selected based on their expression patterns. Such probes can be used to
clone a full length sequence for the gene, to screen a library for a closely related homolog, to screen for
or purify ligands, or to produce a protein.

Utility of the Invention

The plurality of polynucleotides can be used as hybridizable elements in a microarray. Such a
25   microarray can be employed in several applications including diagnostics, prognostics and treatment
regimens, and drug discovery and development for conditions, disorders, and diseases such as cancer,
an immunopathology, a neuropathology and the like.

Expression Profiles

In one situation, the microarray is used to monitor the progression of disease. The differences
30   in gene expression between healthy and diseased tissues or cells can be assessed and cataloged. By
analyzing changes in patterns of gene expression, disease can be diagnosed at earlier stages before the
patient is symptomatic. The invention can be used to formulate a prognosis and to design a treatment
regimen. The invention can also be used to monitor the efficacy of treatment. For treatments with
known side effects, the microarray is employed to "fine tune" the treatment regimen. A dosage is
35   established that causes a change in genetic expression patterns indicative of successful treatment.

Expression patterns associated with the onset of undesirable side effects are avoided. This approach may be more sensitive and rapid than waiting for the patient to show inadequate improvement, or to manifest side effects, before altering the course of treatment.

Alternatively, animal models which mimic a human disease can be used to characterize
5 expression profiles associated with a particular condition, disorder or disease or the treatment of the condition, disorder or disease. Experimental treatment regimens may be tested in these animal models using microarrays to establish and then follow expression profiles over time. In addition, microarrays may be used with cell cultures or tissues removed from animal models to rapidly screen large numbers of candidate drug molecules, looking for ones that produce an expression profile similar to those of
10 known therapeutic drugs, with the expectation that molecules with the same expression profile will likely have similar therapeutic effects. Thus, the invention provides the means to rapidly determine the molecular mode of action of a drug.

Embryonic Stem Cells

Embryonic (ES) stem cells isolated from rodent or human embryos retain the potential to form
15 embryonic tissues. When ES cells such as the mouse 129/SvJ cell line are placed in a blastocyst from the C57BL/6 mouse strain, they resume normal development and contribute to tissues of the live-born animal. ES cells are preferred for use in the creation of experimental knockout and knockin animals. In mice, the method for this process is well known in the art and the steps are: the cDNA is introduced into a vector, the vector is transformed into ES cells, transformed cells are identified and microinjected
20 into mouse cell blastocysts, blastocysts are surgically transferred to pseudopregnant dams. The resulting chimeric progeny are genotyped and bred to produce heterozygous or homozygous strains.

ES cells are also used for the treatment of victims of Parkinson's disease, stroke, and other neuropathologies (The Scientist, 14(18):1ff; September 2000). Pharmaceutical companies are also targeting disorders of the liver, kidney, and pancreas, specifically alpha-1 antitrypsin, polycystic kidney
25 disease, and diabetes, respectively. In time, traumatic damage to the nervous system and internal organs may also be treated by transplantation of cells or organs which are differentiated from embryonic stem cells. The present invention may be used to characterize the developmental pathways of the differentiation processes that give rise to brain, heart, kidney, liver, lung, muscle, ovarian, pancreatic, small intestine, stomach, or uterine tissues.

30 Knockout Analysis

In gene knockout analysis, a region of a gene is enzymatically modified to include a non-natural intervening sequence such as the neomycin phosphotransferase gene (neo; Capecchi (1989) Science 244:1288-1292). The modified gene is transformed into cultured ES cells and integrates into the endogenous genome by homologous recombination. The inserted sequence disrupts transcription and
35 translation of the endogenous gene.

Knockin Analysis

ES cells can be used to create knockin humanized animals or transgenic animal models of human diseases. With knockin technology, a region of a human gene is injected into animal ES cells, and the human sequence integrates into the animal cell genome. Transgenic progeny or inbred lines are

5 studied and treated with potential pharmaceutical agents to obtain information on the progression and treatment of the analogous human condition.

As described herein, the uses of the cDNAs, provided in the Sequence Listing of this application, and their encoded proteins are exemplary of known techniques and are not intended to reflect any limitation on their use in any technique that would be known to the person of average skill in

10 the art. Furthermore, the cDNAs provided in this application may be used in molecular biology techniques that have not yet been developed, provided the new techniques rely on properties of nucleotide sequences that are currently known to the person of ordinary skill in the art, e.g., the triplet genetic code, specific base pair interactions, and the like. Likewise, reference to a method may include combining more than one method for obtaining, assembling or expressing cDNAs that will be known to

15 those skilled in the art. It is also to be understood that this invention is not limited to the particular methodology, protocols, and reagents described, as these may vary. It is also understood that the terminology used herein is for the purpose of describing particular embodiments only, and is not intended to limit the scope of the present invention which will be limited only by the appended claims. The examples below are provided to illustrate the subject invention and are not included for the purpose

20 of limiting the invention.

EXAMPLES

For purposes of example, the preparation and sequencing of the BRAINON01 cDNA library is described. Preparation and sequencing of other cDNAs in libraries in the LIFESEQ database (Incyte Genomics) have varied over time, and the gradual changes involved use of kits, plasmids, and

25 machinery available at the particular time the library was made and analyzed.

I   cDNA Library Construction

The BRAINON01 normalized cDNA library was constructed from cancerous brain tissue obtained from a 26-year-old Caucasian male during cerebral meningeal excision following diagnosis of grade 4 oligoastrocytoma localized in the right fronto-parietal part of the brain. The tumor had been

30 irradiated (5800 rads). Patient history included hemiplegia, epilepsy, ptosis of eyelid, and common migraine, and medications included Dilantin® (Parke-Davis, Morris Plains NJ).

The frozen tissue was homogenized and lysed using a POLYTRON homogenizer (PT-3000; Brinkmann Instruments, Westbury NY) in guanidinium isothiocyanate solution. The lysate was extracted with acid phenol, pH 4.7, per Stratagene RNA isolation protocol (Stratagene, San Diego

35 CA). The RNA was extracted with an equal volume of acid phenol, reprecipitated using 0.3 M sodium

acetate and 2.5 volumes of ⬤nol, resuspended in DEPC-treated water, and ⬤eated with DNase for 25 min at 37°C. The RNA extraction was repeated with phenol, pH 8.7, and precipitated with sodium acetate and ethanol as before. The mRNA was isolated with the OLIGOTEX kit (Qiagen, Chatsworth CA) and used to construct the cDNA library.

5   The mRNA was handled according to the recommended protocols in the SUPERSCRIPT plasmid system (Life Technologies). cDNAs were fractionated on a SEPHAROSE CL4B column (Amersham Pharmacia Biotech), and those cDNAs exceeding 400 bp were ligated into PSPORT I plasmid (Life Technologies). The plasmid was transformed into DH5α competent cells (Life Technologies) to construct the BRAINOT03 library.

10   II   Normalization of the cDNA Library

4.9×10^6 independent clones of the BRAINOT03 library were grown in liquid culture under carbenicillin (25mg/L) and methicillin (1mg/ml) selection following transformation by electroporation into DH12S competent cells (Life Technologies). The culture was monitored using a DU-7 spectrophotometer (Beckman Coulter, Fullerton CA) until it reached an OD600 of 0.2, and then

15   superinfected with a 5-fold excess of the helper phage M13K07 (Vieira et al. (1987) Methods Enzymol 153:3-11).

To reduce the number of highly expressed cDNAs, the library was normalized in a single round according to the procedure of Soares et al. (1994, Proc Natl Acad Sci 91:9928-9932) with the following modifications: 1) the primer to template ratio in the primer extension reaction was increased

20   from 2:1 to 10:1, 2) the ddNTP concentration was reduced to 150μM to allow generation of longer (400-1000nt) primer extension products, and 3) the reannealing hybridization was extended from 13 to 48 hours. After the single stranded DNA circles were purified by hydroxyapatite chromatography and converted to partially double-stranded by random priming, the cDNAs were electroporated into DH10B competent bacteria (Life Technologies) to construct the BRAINON01 normalized library.

25   III   Isolation and Sequencing of cDNA Clones

Plasmid DNA was released from bacterial cells and purified using the REAL Prep 96 plasmid kit (Qiagen). This kit enabled the simultaneous purification of 96 samples in a 96-well block using multi-channel reagent dispensers. The recommended protocol was employed except for the following changes: 1) the bacteria were cultured in 1 ml of sterile TERRIFIC BROTH (BD Biosciences, Sparks

30   MD) with carbenicillin at 25 mg/L and glycerol at 0.4%; 2) the cultures were inoculated, incubated for 19 hours, and then lysed with 0.3 ml of lysis buffer; and 3) following isopropanol precipitation, the plasmid DNA pellet was resuspended in 0.1 ml of distilled water.

The cDNAs were prepared using a MICROLAB 2200 system (Hamilton, Reno NV) in combination with DNA ENGINE thermal cyclers (PTC200; MJ Research, Waltham MA). The

35   cDNAs were sequenced by the method of Sanger and Coulson (1975; J Mol Biol 94:441f) using ABI

PRISM 377 DNA sequenc⬤stems (Applied Biosystems). Most of the s⬤ences were sequenced using standard ABI protocols and kits (Applied Biosystems) at solution volumes of 0.25x - 1.0x. In the alternative, some of the sequences were sequenced using solutions and dyes from Amersham Pharmacia Biotech.

5

IV   Selection of Sequences for the Microarray

Incyte clones were mapped to non-redundant Unigene clusters (Unigene database (build 46), NCBI; Shuler (1997) J Mol Med 75:694-698), and the 5' clone with the strongest BLAST alignment (at least 90% identity and 100 bp overlap) was chosen, verified, and used in the construction of the 10   microarray. The UNIGEM V microarray (Incyte Genomics) contains 7075 array elements which represent 4610 annotated genes and 2,184 unannotated clusters. Table 1 shows the GenBank 119 annotations for SEQ ID NOs:1-416 of this invention as produced by BLAST analysis.

V   Homology Searching of Polynucleotides and Proteins

BLAST involves finding similar segments between the query sequence and a database 15   sequence, evaluating the statistical significance of any similarities, and reporting only those matches that satisfy a user-selectable threshold of significance. BLAST produces alignments of both nucleotide and amino acid sequences to determine sequence similarity.

The fundamental unit of the analysis is the High scoring Segment Pair (HSP). An HSP consists of two sequence fragments of arbitrary, but equal lengths, whose alignment is locally maximal 20   and for which the alignment score meets or exceeds threshold of significance set by the user.

The basis of the search is the product score, which is defined as:

$$\frac{\% \text{ sequence identity x } \% \text{ maximum BLAST score}}{100}$$

The product score takes into account both the degree of identity between two sequences and the 25   length of the sequence match as reflected in the BLAST score. The BLAST score is calculated by scoring +5 for every base that matches in an HSP and -4 for every mismatch. For a product score of 40, the match will be exact within a 1% to 2% error and for a product score of 70, the match will be exact. Homologous molecules usually show product scores between 15 and 40, although lower scores may identify related molecules. The P-value for any given HSP is a function of its expected frequency 30   of occurrence and the number of HSPs observed against the same database sequence with scores at least as high.

Percent sequence identity is found in a comparison of two or more amino acid or nucleic acid sequences. Percent identity can be determined electronically using the MEGALIGN program, a component of LASERGENE software (DNASTAR). The percent similarity between two amino acid 35   sequences is calculated by dividing the length of sequence A, minus the number of gap residues in

sequence A, minus the number of gap residues in sequence B, into the sum of the residue matches between sequence A and sequence B, times one hundred. Gaps of low or of no homology between the two amino acid sequences are not included in determining percentage similarity.

Sequences with conserved protein motifs may be searched using the BLOCKS search program. This program analyses sequence information contained in the Swiss-Prot and PROSITE databases and is useful for determining the classification of uncharacterized proteins translated from genomic or cDNA sequences (Bairoch et al. (1997) Nucleic Acids Res 25:217-221; Attwood et al. (1997) J Chem Inf Comput Sci 37:417-424). PROSITE database is a useful source for identifying functional or structural domains that are not detected using motifs due to extreme sequence divergence. Using weight matrices, these domains are calibrated against the SWISS-PROT database to obtain a measure of the chance distribution of the matches.

The PRINTS database can be searched using the BLIMPS search program to obtain protein family "fingerprints". The PRINTS database complements the PROSITE database by exploiting groups of conserved motifs within sequence alignments to build characteristic signatures of different protein families. For both BLOCKS and PRINTS analyses, the cutoff scores for local similarity were: >1300=strong, 1000-1300=suggestive; for global similarity were: p<exp-3; and for strength (degree of correlation) were: >1300=strong, 1000-1300=weak.

VI   Extension of cDNA Clones

Some of the nucleic acid sequences of the Sequence Listing, designed F, R, or T, were produced by extension of an appropriate fragment of the original clone insert using oligonucleotide primers designed from this fragment. One primer was synthesized to initiate 5' extension of the known sequence, and the other primer, to initiate 3' extension of the known sequence. The initial primers were designed using OLIGO software (Molecular Insights, Cascade CO), or another appropriate program, to be about 22 to 30 nucleotides in length, to have a GC content of about 50% or more, and to anneal to the target sequence at temperatures of about 68°C to about 72°C. Any stretch of nucleotides which would result in hairpin structures and primer-primer dimerizations was avoided.

Selected human cDNA libraries were used to extend the sequence. If more than one extension was necessary or desired, additional or nested sets of primers were designed.

High fidelity amplification was obtained by PCR using methods well known in the art. PCR was performed in 96-well plates using the DNA ENGINE thermal cycler (MJ Research). The reaction mix contained DNA template, 200 nmol of each primer, reaction buffer containing Mg^{2+}, $(NH_4)_2SO_4$, and β-mercaptoethanol, Taq DNA polymerase (Amersham Pharmacia Biotech), ELONGASE enzyme (Life Technologies), and Pfu DNA polymerase (Stratagene), with the following parameters for primer pair PCI A and PCI B: Step 1: 94°C, 3 min; Step 2: 94°C, 15 sec; Step 3: 60°C, 1 min; Step 4: 68°C, 2 min; Step 5: Steps 2, 3, and 4 repeated 20 times; Step 6: 68°C, 5 min; Step 7: storage at 4°C. In the

alternative, the parameters ⬤ rimer pair T7 and SK+ were as follows: St   94°C, 3 min; Step 2: 94°C, 15 sec; Step 3: 57°C, 1 min; Step 4: 68°C, 2 min; Step 5: Steps 2, 3, and 4 repeated 20 times; Step 6: 68°C, 5 min; Step 7: storage at 4°C.

The concentration of DNA in each well was determined by dispensing 100 μl PICOGREEN
5   reagent (0.25% v/v PICOGREEN (Molecular Probes, Eugene OR) dissolved in 1x TE) and 0.5 μl of undiluted PCR product into each well of an opaque fluorimeter plate (Corning Costar, Acton MA), allowing the DNA to bind to the reagent. The plate was scanned in a Fluoroskan II (Labsystems Oy, Helsinki FI) to measure the fluorescence of the sample and to quantify the concentration of DNA. A 5 μl to 10 μl aliquot of the reaction mixture was analyzed by electrophoresis on a 1 % agarose minigel to
10   determine which reactions were successful in extending the sequence.

The extended nucleotides were desalted and concentrated, transferred to 384-well plates, digested with CviJI cholera virus endonuclease (Molecular Biology Research, Madison WI), and sonicated or sheared prior to religation into pUC 18 vector (Amersham Pharmacia Biotech). For shotgun sequencing, the digested nucleotides were separated on 0.6% to 0.8% agarose gels, fragments
15   were excised, and agar digested with AGARACE (Promega). Extended clones were religated using T4 ligase (New England Biolabs, Beverly MA) into pUC 18 vector (Amersham Pharmacia Biotech), treated with Pfu DNA polymerase (Stratagene) to fill-in restriction site overhangs, and transfected into competent E. coli cells. Transformed cells were selected on antibiotic-containing media, and individual colonies were picked and cultured overnight at 37°C in 384-well plates in LB/2x carbenicillin liquid
20   media.

The cells were lysed, and DNA was amplified using Taq DNA polymerase (Amersham Pharmacia Biotech) and Pfu DNA polymerase (Stratagene) with the following parameters: Step 1: 94°C, 3 min; Step 2: 94°C, 15 sec; Step 3: 60°C, 1 min; Step 4: 72°C, 2 min; Step 5: steps 2, 3, and 4 repeated 29 times; Step 6: 72°C, 5 min; Step 7: storage at 4°C. DNA was quantified by PICOGREEN
25   reagent (Molecular Probes) as described above. Samples with low DNA recoveries were reamplified using the conditions described above. Samples were diluted with 20% dimethysulphoxide (1:2 v/v), and sequenced using DYENAMIC energy transfer sequencing primers and the DYENAMIC DIRECT kit (Amersham Pharmacia Biotech) or the ABI PRISM BIGDYE terminator kit (Applied Biosystems).

VII   mRNA for Target Polynucleotides

30   The mRNAs or tissues for preparing target polynucleotides were obtained from Biochain Institute (San Leandro CA), International Institute for Advanced Medicine (Exeter PA), and Oncormed (Gaithersburg MD). RNA was extracted from tissue samples using the extraction protocol and purification procedures described above.

VIII   Microarray Preparation, Labeling of Targets, and Hybridization Analyses

35   Substrate Preparation

Probe polynucleotides were amplified from bacterial vectors by thirty cycles of PCR using

19

primers complementary to vector sequences flanking the insert and purified using SEPHACRYL-400

beads (Amersham Pharmacia Biotech). Purified polynucleotides were robotically arrayed onto a glass

microscope slide (Corning Science Products, Corning NY) previously coated with 0.05% aminopropyl

silane (Sigma-Aldrich) and cured at 110°C. The microarray was exposed to UV irradiation in a

5   STRATALINKER UV-crosslinker (Stratagene).

Target Preparation

Each mRNA sample, shown in Table 2, was reverse transcribed using MMLV reverse

transcriptase in the presence of dCTP-Cy3 or dCTP-Cy5 (Amersham Pharmacia Biotech) according to

standard protocol. After incubation at 37°C, the reaction was stopped with 0.5 M sodium hydroxide,

10   and RNA was degraded at 85°C. The target polynucleotides were purified using CHROMASPIN 30

columns (Clontech, Palo Alto CA) and ethanol precipitation.

Hybridization

The hybridization mixture, containing 0.2 mg of each of the Cy3 and Cy5 labeled target

polynucleotides, was heated to 65°C, and dispensed onto the UNIGEM V microarray (Incyte Genomics)

15   surface. The microarray was covered with a coverslip and incubated at 60°C C. The microarrays were

sequentially washed at 45°C in moderate stringency buffer (1xSSC and 0.1% SDS) and high stringency

buffer (0.1xSSC) and dried.

Detection

A confocal laser microscope was used to detect the fluorescence-labeled hybridization

20   complexes. Excitation wavelengths were 488 nm for Cy3 and 632 nm for Cy5. Each array was scanned

twice, one scan per fluorophore. The emission maxima was 565 nm for Cy3 and 650 nm for Cy5. The

emitted light was split into two photomultiplier tube detectors based on wavelength. The output of the

photomultiplier tube was digitized and displayed as an image, where the signal intensity was represented

using a linear 20 color transformation, with red representing a high signal and blue a low signal. The

25   fluorescence signal for each probe was integrated to obtain a numerical value corresponding to the signal

intensity using GEMTOOLS expression analysis software (Incyte Genomics).

IX   Data Analysis and Results

Out of the 7075 genes present on UNIGEM V, 3627 genes or 51 % were expressed at a

significant level across all 30 tissue samples. Significance was defined as signal to background ratio

30   exceeding 2.5 and area hybridization exceeding 40% for both probes. All data was transformed so that

differential gene expression values were Log base 2 scale.

Analysis of Variance

For each gene, an ANOVA test was run using the tissue categories as the grouping variable.

The ANOVA tested whether measurements across samples belonging to known categories were

35   associated with those categories. ANOVA compares the Variance between (Vb) categories to the

Variance within (Vw) categories. The ratio of Vb divided by Vw (F ratio) was compared to the F

distribution for a population ● equal degree of freedom (DF) and the probab●y of the F ratio was returned.

Anova Computation

5

$$F = \frac{Vbetween}{Vwithin} \qquad Vwithin = \frac{\sum_i (X_i - \overline{X_G})^2}{(N - k)} \qquad Vbetween = \frac{\sum_G N_G(\overline{X_G} - \overline{X_T})^2}{(k - 1)}$$

$$DF = (N-k)*(k-1)$$

X_i : Individual value N_G : Number of Individuals in Category

X_G : Category Mean X_t : Population Mean

N : Number of Individuals

k : Number of Categories

The null hypothesis states that if the measurement variations between samples are due to chance only, the variance within categories and variance between categories should be the same.

10 Therefore, in the absence of any significant association between gene expression and tissue categories, the probability returned by ANOVA is equal to 1. Reciprocally, a strong association between gene expression and tissue categories implies that the variance between samples is significantly greater than the variance within categories, and therefore the probability returned by ANOVA is small.

The data for the 340 genes shown in Table 3 was used to produce Table 4 which shows that each gene

15 selected for annotation scored an ANOVA probability equal or below 10^{-5}.

Gene Annotation

Since selection criterion imposed that the variances of measurement within tissue categories were small (see above), it was acceptable to summarize these measurements as the average of the measurements within each tissue category. Furthermore, in order to emphasize differences between

20 tissue categories for each gene, the differences between tissue averages and all-tissues average were computed; formula and values are shown in Table 5.

Using these differential average values, genes were associated with a primary tissue category according to the highest differential average value. A minimum differential average value of 1.5 was required to associate a gene with a tissue category. When possible, genes were associated with a

25 secondary, tertiary, and even quaternary tissue category according to the second, third, and fourth highest differential average values, respectively.

X   Screening Molecules for Specific Binding with the Polynucleotide or Protein

The polynucleotide or fragments thereof and the protein or portions thereof are labeled with ^{32}P-dCTP, Cy3-dCTP, Cy5-dCTP (Amersham Pharmacia Biotech), or BIODIPY or FITC (Molecular

30 Probes), respectively. Candidate molecules or compounds previously arranged on a substrate are incubated in the presence of labeled nucleic or amino acid. After incubation under conditions for either a

polynucleotide or protein, the substrate is washed, and any position on the substrate retaining label, which indicates specific binding or complex formation, is assayed. The binding molecule is identified by its arrayed position on the substrate. Data obtained using different concentrations of the nucleic acid or protein are used to calculate affinity between the labeled nucleic acid or protein and the bound molecule.

5   High throughput screening using very small assay volumes and very small amounts of test compound is fully described in Burbaum et al. USPN 5,876,946.

All patents and publications mentioned in the specification are incorporated herein by reference. Various modifications and variations of the described method and system of the invention will be apparent to those skilled in the art without departing from the scope and spirit of the invention.

10   Although the invention has been described in connection with specific preferred embodiments, it should be understood that the invention as claimed should not be unduly limited to such specific embodiments. Indeed, various modifications of the described modes for carrying out the invention that are obvious to those skilled in the field of molecular biology or related fields are intended to be within the scope of the following claims.

TABLE 1

SEQ ID	cDNA	SEQ ID	cDNA	Tissue	Description of GenBank Homolog
1	2380381	209	1345551CB1	heart	g602702 mitochondrial 2,4-dienoyl-CoA
2	1618422	210	1618422.con	heart	g285990 mRNA for KIAK0002 gene
3	2672064	211	4646418CB1	heart	g1399027 cysteine rich prot 2
4	608361	212	608361.con	heart	g6808282 mRNA; cDNA DKFZp586O0221
5	1922596	213	2483470CB1	heart	g3452378 glutamate oxaloacetate transaminase, exon 9
6	1850033	214	1850033CB1	heart	g189010 HUMMLC2At
7	986987	215	3030106CB1	heart	g809558 mRNA for cardiac myosin bindin
8	718807	216	718807.con	heart	g1526977 mRNA for ryanodine receptor 2
9	2880435	217	2880435.con	heart	g1841371 MURR1 mRNA
10	187326	218	187326.con	heart	g4071059 TNNI3
11	3208425	219	3208425.con	skel muscle	g28596 aldolase A
12	1668474	220	1668474.con	skel muscle	g178645 erythroid ankyrin mRNA
13	1622542	221	1622542.con	skel muscle	g3882276 mRNA for KIAA0778 protein
14	4014318	222	4014318.con	skel muscle	g306472 DHP-sensitive calcium channel
15	2394888	223	1485879CB1	skel muscle	g791039 mRNA for skeletal muscle-specific calpain
16	1345550	224	2637261CB1	skel muscle	g179787 carbonic anhydrase III
17	1719955	225	1719955.con	skel muscle	g34788 mRNA for muscle specific enolase
18	2256026	226	2256026.con	skel muscle	g1021572 CpG island DNA genomic MseI fragment
19	1538086	227	2501821CB1	skel muscle	g1212945 mRNA for guanidinoacetateN-methyltransferase
20	958633	228	1532783CB1	skel muscle	g7297634 CG5676 gene product
21	2635943	229	3013501CB1	skel muscle	g3153910 muscle glycogen phosphorylase
22	121888	230	3405838CB1	skel muscle	g4808812 myosin heavy chain IIa
23	1627492	231	1627492.con	skel muscle	g3127082 FIP2 alternatively translated mRNA
24	4073867	232	3354111CB1	skel muscle	g4426911 phytanoil-CoA alpha hydroxylase
25	2190170	233	1866437CB1	skel muscle	g5759308 putaive glialblastoma cell differentiation-related protein
26	972224	234	972224.con	skel muscle	g1220345 myosin light chain 2
27	1413644	235	1413644CB1	skel muscle	g409928 adenylyl cyclase-associated prot (CAP2)
28	1538224	236	1538224.con	skel muscle	g439602 Rad mRNA
29	2623268	237	2623268.con	skel muscle	g6523810 FEZ2 protein
30	1665533	238	1665533.con	skel muscle	g1620035 XIB mRNA, complete cds
31	981484	239	981484CB1	skel muscle	g34837 MYF6 for muscle determination factor
32	973629	240	973629.con	skel muscle	g188591 alkali myosin light chain 1

TABLE 1

SEQ ID	cDNA	SEQ ID	cDNA	Tissue	Description of GenBank Homolog
33	1539638	241	1539638CB1	skel muscle	g188582 myosin light chain 1 slow a
34	3015758	242	3010791CB1	skel muscle	g402646 mRNA for fast MyBP-C
35	2832314	243	2832314.con	skel muscle	g338826 TCB gene encoding cytosolic cytosolic thyroid hormone-binding protein
36	1702996	244	912973CB1	skel muscle	g180621 cytoplasmic linker protein-170 alpha 2
37	839947	245	122365CB1	skel muscle	g337721 ryanodine receptor mRNA
38	1867522	246	974936CB1	skel muscle	g1943766 sarcolipin
39	1987831	247	1987831.con	skel muscle	g180708 calcineurin A2
40	2639708	248	1642009CB1	skel muscle	g339964 slow-twitch skeletal troponin I
41	973815	249	2148260CB1	skel muscle	g546020 troponin T
42	2079906	250	1852756CB1	Uterus	g190153 replication factor C
43	2852042	251	2852042.con	Uterus	g181070 cysteine-rich peptide mRNA
44	2368282	252	2665890CB1	Ovary	g181375 cholesterol side-chain cleavage
45	2831248	253	2831248.con	Ovary	g32344 gene for heterogeneous RNP
46	182802	254	182802.con	Ovary	g257052 3 beta-hydroxysteroid dehydrogenase
47	1003884	255	1520287CB1	Ovary	g186836 laminin B1 chain
48	1120	256	1120.con	Ovary	g35902 mRNA for ribosomal protein L7
49	1285380	257	1516165CB1	Stomach	g7339519 mRNA for procathepsin E
50	1636639	258	1636639.con	Stomach	g3005731 clone 24747 mRNA sequence
51	1985870	259	1985870.con	Stomach	g8346840 partial LGALS9 gene for galectin 9 exons
52	1677936	260	3665933CB1	Stomach	g31771 mRNA for gastric lipase
53	910612	261	910612.con	Stomach	g38068 Japanese macaque pepsinogen A-2/3
54	2594407	262	807530CB1	Stomach	g1658285 gastricsin mRNA
55	963536	263	963536.con	Stomach	g35706 pS2 mRNA induced by estrogen
56	434377	264	434377.con	Intestine	g599833 VE-cadherin mRNA
57	2121863	265	2121863.con	Intestine	g719268 cysteine-rich heart protein (hCRHP)
58	1597231	266	1597231CB1	Intestine	g1185451 cytochrome P450 monooxygenase
59	4174437	267	4174437.con	Intestine	g181532 defensin 5 gene
60	2182901	268	2182901.con	Intestine	g181546 defensin 6 mRNA
61	1747979	269	1811382CB1	Intestine	g30822 mRNA for diacylglycerol kinase
62	1630553	270	1630553.con	Intestine	g178285 angiotensin I-converting enzym
63	478960	271	155179CB1	Intestine	g6647301 matriptase mRNA
64	2132487	272	2132487.con	Intestine	g391772 regenerating protein 1

TABLE 1

SEQ ID	cDNA	SEQ ID	cDNA	Tissue	Description of GenBank Homolog
65	2921152	273	2921152CB1	Intestine	g971462 mRNA for I-15P (I-BABP)
66	1846428	274	1800311CB1	Intestine	g183414 guanylin mRNA
67	2796143	275	610574CB1	Intestine	g2924619 mRNA for hepatocyte growth factor activator inhibitor type 2
68	1805613	276	1805613.con	Intestine	g1814276 A33 antigen precursor
69	1431273	277	989613CB1	Intestine	g535474 N-benzoyl-L-tyrosyl-p-amino-benzoic acid hydrolase
70	1804662	278	1804662.con	Intestine	g2058317 mRNA for putative carboxylesterase
71	2921194	279	2921194.con	Intestine	g2385451 mRNA for galectin-3
72	395368	280	395368.con	Intestine	g2826520 maltase-glucoamylase
73	2182861	281	1845979CB1	Intestine	g454153 intestinal mucin (MUC2)
74	1806436	282	1751028CB1	Intestine	g187468 P-glycoprotein (PGY1)
75	2922143	283	1501077CB1	Intestine	g36644 si mRNA for sucrase-isomaltase
76	876720	284	3130321CB1	Lung	g190845 receptor for advanced glycosylation end products (RAGE)
77	1910091	285	1910091.con	Lung	g1699037 ABC3 mRNA
78	2174130	286	2174130.con	Lung	g181467 decay-accelerating factor
79	2219077	287	g6580818	Lung	g6580814 indolethylamine N-methyltransferase
80	1965041	288	1965041.con	Lung	g3882236 mRNA for KIAA0758 protein
81	1649959	289	1649959.con	Lung	g186729 mesothelial keratin K7
82	1222317	290	1222317CB1	Lung	g179916 CAPL protein mRNA
83	2510171	291	939088CB1	Lung	g36490 secretory leucocyte protease inhibitor
84	1988674	292	1988674.con	Lung	g190673 pulmonary surfactant-associated prot B
85	1672640	293	1672640.con	Lung	g37946 mRNA for pre-pro-von Willebrand
86	1926543	294	g4884115	Liver	g23875 3-oxoacyl-CoA thiolase
87	1504934	295	1504934.con	Liver	g28560 peroxisomal L-alanine:glyoxylate aminotransferase
88	2512879	296	2512879.con	Liver	g178089 class I alcohol dehydrogenase (ADH1) alpha subunit
89	1359832	297	1359832.con	Liver	g5002378 alcohol dehydrogenase beta2 subunit
90	1583076	298	1583076.con	Liver	g178147 alcohol dehydrogenase class I gamma subunit
91	139838	299	139838CB1	Liver	g178120 class II alcohol dehydrogenase (ADH4)
92	1344654	300	1344654.con	Liver	g219409 mRNA for alpha-2-plasmin inhibitor
93	2513979	301	2513979.con	Liver	g28747 mRNA for apolipoprotein AII prec
94	2369312	302	2369312.con	Liver	g28802 mRNA for precursor of apolipoprotein CI
95	2048364	303	2514629CB1	Liver	g28805 mRNA for lipoprotein apoCII
96	85246	304	85246	Liver	g178856 apolipoprotein H

TABLE 1

SEQ ID	cDNA	SEQ ID	cDNA	Tissue	Description of GenBank Homolog
97	166337	305	139825CB1	Liver	g178994 liver arginase mRNA
98	138274	306	138274CB1	Liver	g179078 asialoglycoprotein receptor H1
99	1633340	307	4285165CB1	Liver	g5020419 carbamyl phosphate synthetase I
100	1982416	308	630729CB1	Liver	g180255 ceruloplasmin
101	946822	309	946822.con	Liver	g182389 coagulation factor X
102	2517330	310	2517330.con	Liver	g179721 complement component C8-gamma
103	2516489	311	272669CB1	Liver	g179970 corticosteroid binding globulin
104	88741	312	138361CB1	Liver	g180986 cytochrome P450IIA3 (CYP2A3)
105	168865	313	168865CB1	Liver	g263688 cytochrome P450 2C [Macaca
106	231779	314	271684CB1	Liver	g510085 (clone NF 10) cytochrome P450 nifedipine oxidase
107	234123	315	2513588CB1	Liver	g181394 cytosolic epoxide hydrolase
108	1833801	316	1626663CB1	Liver	g8164183 22kDa peroxisomal membrane p
109	1923613	317	1923613.con	Liver	g6523808 carbonyl reductase mRNA
110	2058620	318	2058620.con	Liver	g7023255 cDNA FLJ10913 fis
111	1930954	319	1965888CB1	Liver	g7023313 cDNA FLJ10948 fis
112	1511658	320	1486348.con	Liver	g182406 fibrinogen alpha subunit
113	2590673	321	2590673.con	Liver	g188630 flavin-containing monooxygenase form II
114	1995380	322	1995380.con	Liver	g183655 glutathione S-transferase
115	167409	323	2078240CB1	Liver	g31675 mRNA for group-specific component
116	1846226	324	1846226.con	Liver	g6759555 mRNA for putative progesterone bp
117	2052185	325	185986CB1	Liver	g184487 hemopexin mRNA
118	2517389	326	085596CB1	Liver	g184391 histidine-rich glycoprotein
119	911015	327	1544305CB1	Liver	g2865608 homogentisate 1,2-dioxygenas
120	604856	328	149832CB1	Liver	g494988 nicotinamide N-methyltransferase
121	1448718	329	1448718.con	Liver	g183117 insulin-like growth factor bp
122	2517268	330	2517268.con	Liver	g33988 mRNA for inter-alpha-trypsin inhibitor
123	167134	331	085011CB1	Liver	g33984 second protein of inter-alpha-trypsin inhibitor complex
124	2843638	332	2843638.con	Liver	g3236285 leptin receptor short form
125	1813269	333	1297817CB1	Liver	g180947 carboxylesterase mRNA
126	1861971	334	2517374CB1	Liver	g24444 mRNA for alpha1-acid glycoprotein (orosomucoid)
127	2005973	335	2005973CB1	Liver	g189410 oxytocin mRNA
128	2515729	336	2515729CB1	Liver	g35896 mRNA for retinol binding protein

TABLE 1

SEQ ID	cDNA	SEQ ID	cDNA	Tissue	Description of GenBank Homolog
129	2132356	337	2132356.con	Liver	g35689 liver mRNA for protein C
130	1001726	338	2614869CB1	Liver	g5834471 mRNA for regucalcin
131	2631845	339	2631845.con	Liver	g1160968 serum amyloid A
132	86390	340	086390CB1	Liver	g337749 serum amyloid A protein
133	1287840	341	2881975CB1	Liver	g432974 sterol carrier protein X
134	2516905	342	g5596369	Liver	g5596369 transferrin receptor 2 alpha
135	606122	343	606122.con	Liver	g36712 mRNA for tyrosine aminotransferase
136	3553733	344	2515740CB1	Liver	g4530276 lipopolysaccharide-binding p
137	1813381	345	1272023CB1	Liver	g36574 mRNA for S-protein
138	1634342	346	1634342.con	Kidney	g2707821 aldehyde reductase (ALDR1)
139	1418871	347	629242CB1	Kidney	g3523100 Ksp-cadherin (CDH16)
140	3766382	348	3766382.con	Kidney	g2708638 carbonic anhydrase precursor
141	943181	349	3485891CB1	Kidney	g521073 mRNA for chloride channel
142	603761	350	3321896CB1	Kidney	g1809239 glycoprotein receptor gp330
143	1297562	351	1297562.con	Kidney	g2213812 podocalyxin-like protein
144	2910715	352	2910715.con	Kidney	g7768681 genomic DNA, chromosome 21q
145	196975	353	1612344CB1	Kidney	g296365 mRNA for propionyl-CoA carboxylase a-chain
146	1453049	354	1453049.con	Kidney	g452649 mRNA for lung amiloride sensitive Na+ channel
147	1968695	355	1881237CB1	Kidney	g339204 (clone V6) transcobalamin II
148	958344	356	3669695CB1	Kidney	g340165 uromodulin (Tamm-Horsfall glycoprotein)
149	254081	357	2776408CB1	Pancreas	g537511 alpha-amylase mRNA
150	1330674	358	1330674.con	Pancreas	g187149 bile salt-activated lipase (BAL)
151	2377834	359	2377834.con	Pancreas	g35329 mRNA for procarboxypeptidase A1
152	2075464	360	1307376CB1	Pancreas	g790226 preprocarboxypeptidase A2
153	2383235	361	4166960CB1	Pancreas	g180885 colipase mRNA
154	1285503	362	g180331	Pancreas	g180331 cystic fibrosis mRNA, CFTR
155	2383205	363	2383205.con	Pancreas	g182057 pancreatic elastase IIA mRNA
156	2015871	364	2015871.con	Pancreas	g607029 elastase III B mRNA
157	2374046	365	2088868CB1	Pancreas	g163497 PDI (E.C.5.3.4.1)
158	1709828	366	1709828.con	Pancreas	g325464 endogenous retrovirus type C oncovirus sequence
159	2061119	367	1515152CB1	Pancreas	g31107 mRNA for elongation factor 2
160	3665105	368	3665105.con	Pancreas	g1244511 pancreatic zymogen granule membrane protein GP-2

TABLE 1

SEQ ID	cDNA	SEQ ID	cDNA	Tissue	Description of GenBank Homolog
161	2068983	369	2068983.con	Pancreas	g893381 mRNA for Reg-related sequence
162	2242648	370	3526170CB1	Pancreas	g7023457 cDNA FLJ11041 fis
163	885032	371	5070239CB1	Pancreas	g187231 pancreatic lipase related prote
164	2383830	372	949518CB1	Pancreas	g190012 phospholipase A-2
165	2085191	373	2085191.con	Pancreas	g521215 pancreatic trypsin 1
166	2792982	374	2792982.con	Pancreas	g3928429 mRNA for trypsinogen IV a-form
167	243123	375	787351CB1	Brain	g1709300 amyloid precursor-like protei
168	382416	376	382416.con	Brain	g182736 cerebellar degeneration-assoc prot
169	1852659	377	1852659.con	Brain	g397934 a2-chimaerin
170	3220181	378	3220181.con	Brain	g251801 glial fibrillary acidic protein
171	1726307	379	1726307.con	Brain	g7669991 mRNA; cDNA DKFZp761L0516
172	1904244	380	1904244.con	Brain	Incyte Unique
173	2039955	381	2039955.con	Brain	g600118 extensin-like protein
174	2675641	382	2675641.con	Brain	g189982 testis-specific cAMP-dependent prot kinase catalytic subunit
175	1412749	383	1412749.con	Brain	g6523828 P19 protein mRNA
176	1963854	384	1963854.con	Brain	g9588045 BRI3
177	2949085	385	2949085.con	Brain	g3892873 mRNA for GABA-B R1b receptor
178	2963196	386	2963196.con	Brain	g251801 glial fibrillary acidic protein
179	1505977	387	3493359CB1	Brain	g493133 glutamate receptor 2
180	1674985	388	1674985.con	Brain	g2894085 mRNA for p40
181	2109054	389	2109054.con	Brain	g5689336 mRNA for EB3 protein
182	3317039	390	3317039.con	Brain	g3451335 F22162_1
183	2838551	391	2838551.con	Brain	g4426596 islet-brain 1 mRNA
184	1477568	392	1477568.con	Brain	g4322560 cell-line OV177 DRR1
185	2963871	393	2963871.con	Brain	g2865218 integrin binding protein Del-1
186	1740547	394	2847104CB1	Brain	g1263035 neuronal membrane glycoprot
187	2292011	395	2292011.con	Brain	g1710283 neuronal olfactomedin-related ER localized prot
188	1349484	396	1349484.con	Brain	g3882192 mRNA for KIAA0736 protein
189	1674253	397	1674253.con	Brain	g1665814 mRNA for KIAA0275 gene
190	1932189	398	1932189.con	Brain	g307306 neuroendocrine-specific protein A
191	1403041	399	1558165CB1	Brain	g687589 (AF1q) mRNA
192	1486358	400	1486358.con	Brain	g35958 beta-tubulin gene (5-beta)

TABLE 1

SEQ ID	cDNA	SEQ ID	cDNA	Tissue	Description of GenBank Homolog
193	1439065	401	3869211CB1	Brain	g2645406 calmodulin-stimulated phosphodiesterase PDE1B1
194	530629	402	530629.con	Brain	g1710192 clone 23586 mRNA sequence
195	1672676	403	g559331	Brain	g559331 mRNA for KIAA0080 gene
196	1989129	404	1989129.con	Brain	g1503987 mRNA for KIAA0202 gene
197	1486348	405	1486348.con	Brain	g662277 mRNA for MOBP
198	1397294	406	1397294.con	Brain	g1236938 transcriptional activator mRN
199	2844322	407	2844322.con	Brain	g1927201 FEZ1 mRNA
200	1481440	408	1481440.con	Brain	3' of g1403054???
201	26459	409	026459CB1	Brain	g3290199 peanut-like 2 (PNUTL2) mRNA
202	1406786	410	1406786.con	Brain	g7669991 mRNA; cDNA DKFZp761L0516
203	1485846	411	1485846.con	Brain	g190084 proteolipid protein
204	2153242	412	2153242.con	Brain	g5817080
205	2157981	413	3335607CB1	Brain	g2921407 EEN-B1 mRNA
206	3244361	414	3244361.con	Brain	g31657 GAT1 mRNA for GABA transporter
207	1986737	415	1289007CB1	Brain	g307287 (clone CCG-B7) mRNA sequence
208	2506867	416	1286746CB1	Brain	g35439 mRNA for protein gene product

Table 2

Source No:	Tissue	Age	Ethnicity/Sex	Cause of Death	Conditions or Diseases
122	Ventricle	39	C/M	gunshot wound	
1822	Heart	44	C/M	intracranial hemorrhage	
B7015	Heart				
6986	Skeletal Muscle	23	A/M	accident	
376	Tibia	41	C/F	NA	type II diabetes
4071	Thigh	64	C/F	NA	cancer
6987	Uterus	45	A/F	accident	
6988	Uterus	49	A/F	accident	
1119	Ovary	47	C/F	NA	cancer
6989	Stomach	59	A/F	accident	
6990	Stomach	45	A/M	accident	
6991	Sm Intestine	57	A/F	accident	
6392	Colon	69	A/F	accident	
3779	Lung	13	C/M	intracranial hemorrhage	
2881	Lung	1.1	C/F	drowning	
2152	Lung	12	C/M	accident	ADD, hyperactivity
4209	Liver	56	C/F	NA	cancer
4133	Liver	60	C/M	NA	cancer
2147	Liver	8	C/F	closed head injury	diabetes, asthma
6993	Kidney	72	A/M	accident	
6994	Kidney	26	A/M	accident	
6995	Kidney	46	A/M	accident	
6996	Pancreas	24	A/M	accident	
6997	Spleen	28	A/M	accident	
6998	Spleen	33	A/M	accident	
6999	Brain	27	A/M	accident	
7000	Brain	23	A/M	accident	
3971	Striatum	78	C/M	NA	Alzheimer's

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
2380381	1.38	1.32	2.04	0.77	-0.26	-0.14	-0.93	-1.00	-0.38	-0.38	-0.38	-0.26	0.14	0.26	-0.85
1618422	1.14	1.14	1.38	-1.58	-1.38	-1.43	0.58	0.68	-0.26	-0.26	-0.68	0.38	0.68	0.14	-0.26
2672064	2.23	2.17	1.58	-0.26	-0.58	-0.68	0.58	0.58	-0.85	-0.38	0.00	-0.58	-0.68	-0.38	0.49
608361	2.70	1.89	1.68	0.68	0.38	-0.14	0.93	0.58	-0.77	0.58	0.26	0.26	0.14	-0.14	0.00
608435	1.72	1.81	1.49	1.85	1.07	0.68	-2.00	-2.10	-1.93	-1.20	-0.49	-1.00	-1.00	-0.77	-1.85
1922596	1.26	4.06	1.00	-1.00	-0.85	-1.14	-1.49	-1.81	-2.07	-1.68	-1.89	-1.68	-2.23	-2.04	-1.85
1850033	3.83	3.20	2.93	-2.07	-1.26	-1.93	-2.38	-2.32	-2.66	-2.04	-2.81	-2.68	-2.77	-2.70	-2.23
986987	2.79	3.39	3.25	-1.14	-0.85	-1.00	-1.63	-1.68	-1.14	-0.93	-1.63	-1.38	-1.20	-1.77	-0.85
718807	1.96	1.68	2.29	-0.77	-0.49	-0.77	0.14	0.14	-0.58	-0.49	-0.38	-0.26	0.00	-0.49	-0.14
2880435	3.87	3.14	3.69	-0.58	-0.26	-0.38	-2.49	-1.96	-2.49	-2.56	-2.46	-2.79	-2.66	-2.66	-2.04
187326	2.61	2.23	1.81	2.81	1.38	1.54	-1.63	-1.72	-1.63	-1.20	-1.07	-1.14	-1.43	-1.07	-1.68
1997963	3.42	3.14	2.89	1.20	1.89	1.20	0.00	-0.77	-2.23	0.14	-1.14	-0.38	-1.54	-1.26	-1.85
467700	2.66	2.17	2.46	3.05	2.00	1.81	-2.63	-2.17	-2.51	-2.00	-1.85	-2.35	-2.23	-2.20	-2.96
57382	2.29	1.63	1.93	2.14	1.32	0.85	-1.85	-1.96	-1.85	-0.58	-0.49	-0.14	-0.85	-0.14	-1.49
1222442	3.45	2.32	2.77	1.63	1.58	1.26	-1.00	-0.58	-1.93	-2.70	-2.07	-2.81	-3.00	-2.98	-1.93
4013105	3.54	3.12	2.63	0.58	2.43	-1.26	-3.38	-3.55	-3.43	-3.66	-3.85	-3.67	-3.95	-4.05	-1.43
924319	2.79	2.43	1.81	0.85	1.38	2.07	-1.14	-1.07	-1.07	-1.49	-0.93	-0.93	-1.00	-0.85	-1.00
1645119	3.17	2.98	2.46	2.23	2.61	2.54	-1.93	-1.54	-2.00	-2.20	-1.54	-2.04	-2.14	-2.20	-1.54
1379925	1.54	2.89	2.38	1.63	0.85	1.68	0.77	0.49	-1.54	-0.68	-1.72	-0.26	-0.85	-0.58	-2.04
1900961	2.35	1.72	1.93	1.07	2.43	1.63	-2.46	-2.56	-2.85	-1.32	-1.14	-0.93	-1.20	0.38	0.00
3506985	2.29	1.26	0.49	1.07	1.07	0.77	1.07	1.38	-0.58	0.00	0.14	-2.23	-1.72	-0.93	-1.68
551403	2.29	1.20	0.58	1.26	1.14	0.93	1.07	1.43	-0.68	0.14	0.26	-2.14	-2.38	-1.00	-1.77
3948420	2.38	1.68	2.20	-0.58	0.00	-1.20	-0.85	-0.77	1.54	0.00	-0.14	-0.93	-0.93	-0.77	-0.77
1722853	1.89	2.04	1.54	-1.43	-1.38	-1.63	0.00	0.14	-1.72	-0.93	-1.07	-2.43	-2.17	-1.58	-1.26
1557490	0.93	1.14	0.38	3.34	1.49	2.29	-0.93	-0.85	-1.20	-0.68	-1.00	-0.68	-0.58	-0.38	-1.43
3208425	1.00	0.00	0.77	3.07	3.19	2.61	-1.49	-1.07	-1.14	-0.85	-1.14	-1.72	-1.43	-1.77	-1.38
1668474	-0.38	-0.58	-0.77	1.81	1.43	1.93	-0.85	-1.14	-1.00	-0.58	-0.77	0.00	-0.49	-0.38	-1.07
1622542	-0.14	0.26	-1.14	3.32	2.96	2.70	0.14	0.00	0.00	-0.26	-0.26	-0.49	-0.38	-0.49	0.00
4014318	-1.26	-1.20	-1.81	2.98	3.17	2.81	-1.43	-1.20	-1.26	-1.43	-1.63	-1.68	-1.43	-1.58	-0.49
2394888	-3.61	-3.90	-3.99	3.10	4.50	3.32	-3.46	-2.85	-4.09	-3.81	-4.06	-4.25	-3.84	-4.41	-3.36

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
1719955	-0.26	0.49	-0.26	4.05	2.04	2.61	-2.72	-2.58	-2.51	-2.20	-2.49	-2.72	-2.32	-2.38	-1.96
2256026	-0.14	-0.14	-0.85	2.49	2.66	2.79	-0.26	-0.26	-0.49	-0.85	-0.85	-0.68	-0.68	-0.93	-0.26
1538086	-0.38	0.00	0.00	2.23	1.26	1.85	-1.20	-1.14	-1.00	-0.68	-1.14	-0.77	-0.93	-1.26	-1.14
958633	0.93	1.14	1.49	2.26	1.58	1.43	0.58	0.68	0.93	-0.26	-0.58	-0.68	-0.38	-0.26	-0.38
2635943	-2.20	-1.26	-2.04	4.00	2.91	2.98	-2.79	-2.58	-3.19	-2.29	-3.23	-3.17	-2.41	-3.10	-3.28
121888	-1.68	-1.72	-1.54	2.93	3.38	2.85	-3.60	-3.36	-3.42	-3.22	-3.38	-4.01	-3.90	-4.44	-2.98
1627492	0.00	0.26	0.14	2.41	2.07	2.20	0.00	-0.14	0.68	-0.58	-0.58	-0.58	0.00	-0.38	-1.14
4073867	0.85	0.49	0.26	2.35	1.38	1.68	-0.38	-0.38	0.00	-0.26	-0.26	-0.14	0.00	0.14	-0.85
2190170	0.49	0.49	0.38	2.93	2.14	2.38	0.68	0.58	0.68	0.00	-0.14	-0.14	0.00	0.14	0.26
972224	-2.26	-1.68	-3.56	4.73	3.29	3.26	-2.81	-2.81	-3.32	-2.72	-3.34	-3.54	-3.72	-3.61	-3.17
1413644	-0.14	0.00	-0.58	2.83	2.10	1.96	-0.85	-0.14	-1.58	-0.58	-1.63	-0.85	-0.93	-1.20	-1.89
1538224	0.68	1.77	1.07	1.89	2.07	1.38	0.14	-0.14	-0.26	-0.58	-0.93	-0.58	-0.38	-0.68	0.26
2623268	-0.58	0.14	-0.58	1.43	1.38	1.93	0.38	0.58	-0.26	0.58	-0.26	-0.85	-0.58	-0.49	-1.14
1665533	0.58	0.49	0.26	1.89	2.20	1.63	-0.14	-0.14	-0.26	-0.58	-0.38	-0.77	-0.26	-0.26	-0.14
981484	-0.77	-0.77	-0.58	1.72	1.85	2.17	-1.20	-1.20	-1.26	-0.58	-0.85	-0.93	-0.93	-1.14	-0.85
973629	-1.68	-0.85	-2.32	4.27	3.51	3.31	-2.87	-2.83	-3.09	-2.61	-2.72	-2.89	-2.96	-3.10	-3.41
1539638	-1.07	-0.49	-0.58	1.49	1.26	1.20	0.26	0.26	0.14	-0.26	-0.38	-0.14	0.00	-0.14	-0.49
3015758	-1.49	-1.68	-2.77	4.54	3.86	2.94	-2.63	-2.63	-2.58	-2.58	-2.49	-3.23	-2.66	-3.25	-2.20
2832314	0.85	0.85	0.38	2.58	1.72	0.93	-0.14	0.00	-0.26	-0.26	-0.26	-0.38	-0.38	-0.14	-0.26
1702996	-0.38	0.00	-0.26	2.00	2.00	2.10	1.07	0.77	-0.49	-0.14	0.49	-0.49	-0.14	-0.38	-0.68
839947	0.14	-0.38	-1.26	2.38	1.63	2.10	-1.58	-1.32	-1.72	-0.68	-0.38	-0.68	-0.77	-0.85	-0.68
1867522	-3.29	-2.10	-4.61	4.66	4.18	3.50	-4.88	-4.94	-5.17	-3.94	-3.90	-5.26	-4.37	-5.05	-3.88
1987831	0.14	-0.14	0.14	1.54	1.32	1.43	-0.26	-0.14	x	-0.38	-0.68	-0.38	-0.58	-0.77	-0.85
2639708	-1.72	-2.20	-1.58	3.41	3.17	3.45	-2.63	-2.61	-3.02	-2.72	-2.98	-2.49	-2.91	-2.89	-2.61
973815	-1.63	-2.26	-1.43	3.12	3.15	3.77	-2.58	-2.72	-3.02	-3.12	-2.98	-3.22	-3.66	-3.60	-2.41
169884	2.23	1.81	1.00	3.69	3.57	3.81	-2.07	-2.17	x	-1.32	-1.72	-1.54	-1.38	-2.26	-1.43
2638235	1.85	1.68	1.63	1.85	1.63	2.23	-1.00	-1.07	-1.32	-0.38	-0.14	-1.14	-1.20	-1.00	0.00
305198	2.89	1.32	1.85	2.85	2.66	2.68	-1.43	-1.93	-2.26	-1.14	-1.54	-1.68	-2.07	-2.00	-1.07
57997	1.14	1.77	0.58	3.92	2.85	3.50	-0.68	-0.93	-1.32	-0.58	-0.14	-1.43	-1.54	-1.63	-1.20
986558	2.68	2.41	2.04	3.25	2.35	2.23	-0.93	-0.93	-1.26	-1.32	-0.77	-1.58	-1.49	-1.54	-1.38

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
224996	1.63	-0.26	-0.68	3.29	3.23	2.98	0.58	-0.26	-2.20	-0.26	-1.26	-1.20	-1.58	-1.20	-1.77
661259	1.49	1.63	1.14	2.54	1.07	1.26	-1.00	-0.85	-1.32	-0.58	-0.49	-1.00	-1.14	-0.93	-1.54
3246379	0.85	2.00	0.14	3.00	1.68	2.63	-1.00	-1.07	-1.68	-1.14	-1.26	-1.38	-1.26	-1.43	-1.43
78783	1.81	0.77	0.93	1.43	2.32	1.49	-0.26	-0.26	-0.38	-0.14	0.14	-0.77	-0.26	-0.38	-0.14
2639181	1.93	2.32	2.00	4.22	2.68	3.07	-4.95	-4.87	-4.92	-5.22	-5.50	-5.00	-4.69	-4.86	-5.02
1672467	2.35	2.17	2.17	3.02	3.28	3.29	-1.38	-1.43	-2.49	-2.00	-2.17	-1.96	-2.23	-2.43	-2.38
2950063	0.77	0.77	0.49	2.85	3.23	2.77	-2.70	-2.72	-2.74	-2.72	-3.28	-4.06	-3.87	-4.41	-2.51
3288518	-0.85	-0.77	-1.85	4.15	4.26	3.61	-4.18	-4.19	-4.67	-4.65	-4.98	-6.14	-5.37	-5.49	-3.80
184110	2.72	-0.26	2.20	2.89	2.96	3.12	-4.28	-4.19	-4.49	-3.09	-3.93	-5.09	-4.13	-4.43	-3.83
1368173	1.26	0.93	0.85	2.70	1.93	1.77	-1.14	-1.00	-0.77	-1.43	-1.58	-1.43	-1.58	-1.54	-1.32
1813409	1.32	1.32	1.07	2.87	2.00	2.10	-1.14	-1.43	-1.96	-0.26	0.38	-0.93	-1.00	-0.49	-1.43
58309	1.96	2.14	1.68	3.10	3.94	3.81	-4.02	-4.19	-4.11	-2.43	-2.74	-3.61	-3.62	-2.89	-3.31
1721744	1.85	1.89	1.54	2.17	2.00	1.49	0.14	0.49	-0.26	-0.77	-0.26	-0.85	-0.58	-0.77	-1.00
1924344	0.00	-0.14	-0.68	3.42	3.54	2.74	1.07	0.26	-1.26	-0.14	-1.00	-0.49	-1.00	-0.93	-1.81
3176845	-0.14	-0.58	-1.00	2.98	2.81	2.83	1.63	1.63	-0.49	0.38	-1.38	-0.49	-1.20	-0.85	-2.23
2286809	0.26	1.63	0.58	3.17	2.93	3.02	-2.32	-1.89	-1.85	-0.93	-1.54	-0.77	-1.81	-0.68	-2.38
1985244	1.26	0.26	0.00	3.52	2.66	2.63	-0.85	-0.77	-0.26	-0.77	-1.20	-0.85	-0.93	-0.38	-1.07
1570042	-0.14	0.26	-0.38	2.51	1.68	1.54	-0.85	-0.93	-1.07	-1.00	-1.32	-1.68	-1.20	-1.32	-1.14
2079906	-1.63	-1.07	-1.68	-1.20	-1.14	-1.32	2.10	2.14	0.58	0.77	-0.85	0.85	0.49	0.58	-0.38
2852042	-1.68	-1.54	-2.23	-1.49	-2.07	-2.20	2.93	2.68	0.14	1.49	-0.14	0.85	0.14	0.26	-0.85
1319020	2.07	1.43	0.77	0.68	0.26	0.00	2.04	2.07	0.93	0.00	-0.58	-1.07	-0.38	-0.49	-0.93
1572555	1.38	0.77	0.77	1.14	0.68	0.68	1.96	1.58	0.00	0.85	-0.68	1.00	0.26	0.77	-1.54
782235	-1.32	-1.32	-1.89	-1.58	-2.04	-1.32	3.23	2.70	1.68	0.14	-1.07	-1.07	-1.14	-0.58	-0.38
1314882	0.00	-0.26	-0.49	-0.58	-0.49	-0.68	2.61	2.66	1.72	0.49	-0.85	-0.26	-0.26	0.00	0.58
1403636	-1.00	-0.26	-0.93	0.77	0.14	0.49	1.81	1.85	1.58	1.00	-0.49	0.38	-0.14	0.00	-0.68
1968921	0.00	-0.26	-0.26	-0.26	-0.68	-0.26	1.58	1.77	1.38	0.26	-0.49	0.14	-0.26	0.14	-0.58
1558081	0.38	0.00	0.14	0.38	-0.58	-0.49	2.23	1.81	1.32	0.49	0.00	-0.49	-0.38	0.38	0.14
2495131	1.00	0.26	0.00	1.20	1.85	1.00	2.51	2.66	2.14	0.49	-0.58	0.00	-0.38	0.14	0.14
4049957	-1.68	-1.49	-2.98	-1.49	-2.46	-2.32	3.39	3.14	1.14	1.20	-0.38	0.85	0.00	0.26	-1.00
1686585	-1.14	-0.38	-0.77	0.58	0.26	0.26	2.07	2.43	2.07	0.26	0.14	-1.00	-0.93	-0.58	-1.96

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
2696735	-0.49	-1.07	-2.23	-1.77	-2.38	-2.38	3.22	2.81	-0.77	1.54	0.14	0.77	0.14	0.14	-2.56
1720149	-2.38	-1.38	-2.54	-1.85	-1.96	-2.04	2.77	2.79	0.49	1.32	0.00	1.32	1.07	0.77	-0.85
1866751	-2.23	-1.20	-2.49	-1.26	-1.20	-1.43	3.14	2.87	-0.49	2.10	0.14	1.96	1.20	1.20	-1.85
1851696	0.26	1.00	0.77	-0.38	-0.49	-0.49	2.04	2.79	1.00	1.14	0.26	1.32	0.77	1.38	1.54
93820	-1.77	-2.54	-2.14	-2.23	-1.85	-2.14	2.68	1.68	-1.68	-2.41	-2.43	-2.38	-2.26	-2.32	-2.29
2368282	-0.93	-1.14	-0.26	-0.68	-0.38	-0.58	-0.49	-0.77	3.64	-0.26	-0.93	-0.68	-0.85	-0.85	-0.58
2831248	0.00	0.00	0.00	0.00	0.00	-0.14	1.14	1.32	2.49	0.26	0.38	-0.26	-0.14	0.38	0.14
182802	-0.58	-0.68	-1.26	-0.58	-0.26	-0.93	-1.20	-1.07	3.54	0.00	-0.58	0.00	0.85	0.26	-1.07
1003884	0.14	0.26	0.49	-1.14	-0.26	-0.93	1.32	1.14	1.49	0.00	0.00	-0.14	0.14	0.38	0.77
1120	-0.38	0.00	0.14	0.49	0.38	0.38	0.58	1.14	2.23	0.14	0.14	-0.38	0.00	0.38	0.00
1308542	1.49	1.20	1.20	-0.49	-0.58	-0.68	-0.77	-1.07	1.32	0.49	0.14	-0.38	-0.68	-0.68	-0.26
3820761	0.58	0.00	1.07	0.77	-0.68	-0.38	1.54	1.43	2.23	0.14	-0.49	-0.77	-0.26	0.26	-0.38
1999167	0.14	0.26	-0.58	-1.77	-1.38	-1.81	1.20	1.49	1.38	0.38	-0.26	-0.38	0.00	0.00	-0.85
1522716	-0.14	0.00	-0.58	-0.14	-0.26	-0.49	2.07	2.04	3.04	0.14	0.14	-0.38	-0.58	0.14	0.38
1612969	-0.58	-0.77	-0.26	-0.77	-0.85	-0.85	0.26	-0.14	2.83	-0.68	-1.00	-1.00	-1.38	-1.00	-1.14
337500	-0.77	-0.68	-1.32	-0.85	-1.20	-1.26	1.07	1.38	2.54	0.49	0.58	0.14	0.14	0.58	-0.14
1285380	-0.68	-0.58	0.14	-0.58	-0.77	-0.68	-0.58	-0.58	-0.85	1.85	1.96	-0.14	-0.58	-0.49	0.14
1636639	0.77	0.49	0.93	-0.85	-0.38	-0.77	0.85	0.58	-0.68	1.49	2.46	0.49	0.49	0.49	0.00
1985870	-0.58	-0.58	-0.49	-0.68	-0.58	-0.85	-0.49	-0.58	-0.68	1.68	1.96	0.58	0.38	0.93	0.38
1677936	-5.83	-5.86	-5.13	-5.28	-4.60	-5.10	-5.38	-5.17	-5.33	3.82	3.64	-1.68	-5.19	-4.80	-4.85
910612	-4.84	-5.09	-3.51	-4.35	-3.98	-4.44	-4.75	-4.59	-4.54	3.89	3.67	-1.20	-5.17	-4.04	-4.45
2594407	-4.89	-5.01	-5.62	-4.76	-4.32	-4.56	-5.20	-5.08	-5.38	4.19	3.51	-1.26	-5.17	-4.45	-2.49
963536	-3.20	-2.96	-1.85	-2.74	-2.23	-2.70	-3.00	-3.12	-3.26	3.10	3.45	-1.32	-1.49	-2.10	-2.61
2252895	-0.93	-0.38	-2.14	-0.68	-0.14	-1.20	-1.54	-1.77	-1.81	3.12	3.38	1.85	1.72	1.72	-1.07
2804190	-0.58	-0.77	-0.49	-0.68	-0.49	-0.49	-0.68	-0.49	-0.49	2.00	1.58	1.26	1.63	1.14	-0.14
1998428	-2.74	-2.70	-2.46	-2.17	-1.32	-2.04	-2.46	-2.46	-2.38	3.00	3.26	0.38	1.07	0.85	-0.85
1800114	-2.20	-2.14	-2.32	-2.32	-1.38	-1.93	-1.85	-1.93	-2.04	1.58	1.26	0.85	1.54	1.81	-0.58
1806769	-1.68	-1.68	-2.29	-1.07	-0.68	-1.54	-1.81	-1.68	-1.54	2.04	2.35	0.38	1.63	1.96	0.68
2474163	-1.26	-1.07	-1.77	-0.26	-0.49	-1.00	-2.29	-2.00	-1.77	1.72	2.49	-1.93	-1.63	-2.04	-1.26
1435374	-2.41	-2.29	-3.04	-2.66	-2.23	-2.66	-2.63	-2.29	-1.49	1.14	1.38	0.58	0.85	1.20	0.26

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
434377	-0.14	-0.58	0.14	-0.26	0.26	-0.49	-0.38	-0.14	-1.00	-1.00	-1.20	1.68	2.00	2.32	0.77
2121863	-0.26	-0.26	-0.26	0.00	0.14	-0.58	1.14	0.85	-0.26	0.85	1.14	2.38	2.10	2.43	1.14
1597231	1.72	1.32	0.93	0.77	1.07	0.14	-1.38	-1.32	x	-0.38	-0.77	1.58	1.81	1.72	-0.85
4174437	-4.32	-4.47	-4.21	-3.47	-3.17	-3.47	-4.28	-3.74	-3.93	-1.89	-4.63	2.63	3.31	3.25	-3.07
2182901	-3.98	-4.10	-3.56	-3.02	-2.20	-3.22	-3.45	-3.25	-3.86	-1.89	-4.50	2.66	3.62	3.61	-3.09
1747979	-0.58	-0.49	-1.32	-0.77	-0.38	-0.68	0.26	0.14	-0.26	0.49	0.38	1.81	1.54	1.72	0.00
1630553	-1.14	-0.77	-1.54	-0.93	-0.85	-1.07	-1.20	-0.58	-1.96	-1.20	-1.63	3.12	2.98	3.00	-0.77
478960	-0.58	-0.85	-1.07	-0.49	-0.26	-0.58	-1.00	-0.77	-1.07	0.58	0.38	1.49	1.81	1.72	0.00
2132487	0.00	-0.58	-1.20	0.14	-0.14	-0.38	-0.77	-1.07	-1.00	0.49	-0.38	2.17	2.61	2.68	-0.38
2921152	-2.79	-3.04	-3.02	-2.81	-2.29	-2.68	-3.56	-3.19	-3.23	-2.49	-2.87	2.35	3.60	2.91	-2.93
1846428	-1.96	-1.77	-2.79	-0.77	-0.26	-0.68	-1.26	-1.38	-1.49	-1.77	-2.14	3.22	3.31	3.26	-1.20
2796143	-0.14	-0.93	-1.68	-1.43	-1.38	-1.77	-1.72	-1.89	-0.38	0.49	0.68	1.07	1.54	1.43	0.77
1805613	-0.38	-0.85	-1.85	0.00	0.14	-0.38	-0.85	-0.77	-0.85	0.00	-0.85	2.54	3.05	2.98	-0.49
1431273	-1.72	-1.96	-2.00	-1.85	-1.38	-2.26	-2.32	-2.56	-2.32	-1.38	-1.89	2.66	3.07	2.94	-1.68
1804662	-0.14	-0.49	-1.26	-0.77	-0.49	-1.00	-1.26	-1.14	-1.07	-0.38	-0.77	1.54	2.07	1.93	-1.58
2921194	-0.38	-0.14	0.00	-0.49	-0.85	-1.07	0.58	0.68	0.85	0.38	0.77	1.81	2.04	1.96	0.14
395368	-2.32	-2.23	-3.51	-2.14	-1.85	-2.10	-2.56	-2.49	-2.35	-1.38	-1.49	2.81	3.51	3.09	-1.54
2182861	0.14	0.00	-0.85	0.00	0.26	-0.14	-0.38	-0.26	-0.38	-0.26	-0.49	1.81	2.14	2.10	-0.58
1806436	-0.38	-1.07	-0.77	-1.26	-0.93	-1.00	-0.58	-0.38	x	-1.00	-1.07	1.89	2.14	1.81	-0.68
2922143	-1.68	-2.07	-3.32	-2.61	-2.43	-2.89	-3.36	-3.19	-3.56	-1.07	-1.96	2.63	3.39	3.41	-3.00
1696001	-0.26	-1.07	-0.77	-1.07	-1.20	-1.20	-1.49	-1.38	-1.77	-0.26	-1.00	2.38	2.81	2.26	-1.07
1635004	-2.41	-2.61	-3.55	-2.38	-1.77	-2.17	-2.96	-2.72	-2.61	1.32	0.93	2.68	3.10	3.09	-1.68
2132752	-2.10	-2.26	-3.68	-2.04	-1.07	-1.85	-2.07	-1.77	-1.38	1.54	2.32	2.29	3.09	3.38	-1.20
1734393	-2.91	-2.93	-3.23	-2.94	-2.00	-2.63	-3.29	-3.02	-2.58	1.32	0.58	2.17	2.72	2.72	-2.72
4179338	-3.46	-3.09	-4.82	-4.71	-4.26	-4.49	-4.97	-5.31	-5.16	-2.63	-4.98	2.26	3.26	2.56	-4.09
1427623	-1.54	-1.93	-2.04	-1.96	-1.32	-1.93	-2.23	-1.81	x	-0.38	-2.49	2.26	3.05	2.41	-1.89
3320987	-2.10	-2.17	-2.07	-2.00	-1.77	-2.29	-0.49	-0.38	-2.54	-2.35	-2.51	2.26	2.68	2.93	-2.46
2239819	-1.68	-1.77	-2.68	-1.20	-1.07	-1.26	-2.23	-2.14	-2.20	-1.72	-2.10	2.41	2.56	2.72	-1.85
876720	-0.68	-0.77	-1.07	-0.77	-0.77	-0.85	-0.77	-0.93	-1.00	-0.93	-1.07	-1.00	-0.58	-1.00	2.98
1910091	-0.14	-0.49	-0.93	0.00	-0.38	-0.38	-0.38	-0.49	-0.85	-0.68	-0.68	-0.49	-0.49	-0.58	1.85

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
2174130	-0.49	0.00	-0.58	0.00	0.00	0.00	0.26	0.00	1.14	0.68	1.07	0.26	0.26	0.58	1.49
2219077	0.26	0.38	0.26	-0.49	-0.26	-0.38	-0.26	0.14	0.00	-0.14	-0.58	-0.14	-0.68	-0.58	1.43
1965041	0.93	0.85	0.93	0.14	0.85	0.00	0.38	0.77	-0.49	-0.77	-0.38	-1.07	-0.77	-0.85	1.77
1649959	-1.26	-1.20	-2.10	-0.77	-0.49	-0.68	-1.14	-1.20	-1.54	0.14	0.49	0.00	0.26	0.00	2.35
1222317	-0.26	-0.14	0.14	0.26	-0.26	-0.38	0.68	0.26	-1.07	0.14	0.00	0.00	-0.14	0.26	1.96
2510171	-1.68	-1.43	-0.26	-1.20	-0.77	-1.20	-1.63	-1.81	-1.85	0.14	0.00	-1.14	-1.32	-1.49	2.35
1988674	-1.32	-1.07	-1.54	-1.26	-0.58	-1.26	-0.85	-1.07	-1.20	-0.77	-0.68	-0.26	-0.68	-0.68	2.17
1672640	2.35	1.38	0.58	0.58	0.58	0.38	1.00	1.07	0.49	-0.14	-0.49	-0.77	-0.85	0.00	1.72
1749417	-1.72	-1.26	-1.77	-2.04	-1.93	-1.85	-0.58	-1.14	-0.85	-0.26	-0.14	-1.07	-0.58	-0.68	1.81
1926543	0.26	-0.14	-0.14	-0.58	-0.49	-0.77	-0.68	-0.93	-0.58	-0.26	-0.14	0.00	0.14	0.00	-0.14
1504934	-1.81	-1.89	-1.77	-1.38	-1.07	-1.58	-2.00	-1.81	-1.63	-1.89	-2.61	-2.35	-2.04	-2.46	-1.77
2512879	-1.68	-1.32	-1.14	-0.93	-0.93	-1.38	-1.00	-1.00	-1.20	0.00	0.14	-0.58	-0.38	0.00	0.14
1359832	-1.81	-1.32	-0.85	-1.54	-2.17	-1.81	-1.20	-1.14	-1.43	-0.26	-0.77	-1.32	-0.38	-0.38	-0.26
1583076	-1.58	-1.26	-0.77	-1.26	-1.72	-1.43	-1.26	-1.20	-1.43	0.49	0.26	-0.26	-0.14	0.14	-0.38
139838	-2.14	-2.32	-2.68	-2.43	-2.20	-2.87	-3.15	-3.36	-2.61	-2.14	-2.68	-3.17	-2.23	-2.74	-2.26
1344654	-1.54	-1.38	-0.68	-1.00	-0.85	-1.00	-1.00	-1.32	-1.20	-1.32	-1.32	-1.00	-1.43	-1.14	-0.26
2513979	-3.35	-3.52	-2.32	-2.38	-1.81	-2.63	-3.04	-2.77	-2.66	-2.38	-3.41	-3.41	-3.42	-3.19	-2.49
2369312	-3.05	-3.23	-3.20	-2.72	-1.89	-2.38	-2.87	-2.68	-1.20	-3.23	-2.63	-3.96	-3.56	-3.39	-0.58
2048364	-3.12	-3.17	-3.42	-2.61	-2.26	-2.66	-4.00	-3.71	-3.61	-3.09	-3.72	-3.57	-2.23	-3.32	-2.54
85246	-4.17	-4.22	-4.89	-4.26	-3.35	-3.95	-4.65	-4.50	-4.18	-3.61	-4.53	-4.99	-4.37	-4.80	-3.79
166337	-1.32	-1.68	-2.20	-1.00	-0.85	-1.20	-0.93	-1.20	-1.20	-0.85	-1.32	-1.72	-1.00	-1.58	-0.26
138274	-0.38	-0.58	-1.00	-0.26	-0.26	-0.38	-0.85	-0.68	-0.85	-0.77	-0.77	-0.93	-0.58	-0.85	-0.58
1633340	-1.20	-1.58	-0.58	-1.32	-1.43	-1.68	-1.68	-1.85	-1.77	-1.00	-1.58	0.49	0.58	0.49	-1.68
1982416	0.00	-0.68	-0.26	-1.07	-1.20	-1.38	-1.38	-1.96	-1.72	-0.49	-0.85	-0.68	-1.07	-0.68	-0.68
946822	-0.26	0.14	0.14	-0.14	-0.14	0.00	0.00	-0.49	0.26	-0.26	-0.58	-0.26	-0.14	0.00	-0.49
2517330	0.00	-0.26	-1.20	-0.26	-0.85	-0.49	-0.68	-0.85	-0.85	-0.14	-0.38	0.26	0.14	0.14	-0.14
2516489	-0.14	-1.14	-1.14	-0.93	-0.58	-0.93	-1.20	-1.00	-1.20	-1.00	-1.20	-0.93	-0.85	-1.26	-0.49
88741	-1.26	-1.32	-1.68	-1.14	-1.26	-1.14	-1.81	-1.63	-1.32	-1.63	-2.17	-2.00	-1.49	-2.04	-1.20
168865	-1.43	-1.68	-1.68	-2.04	-1.77	-2.26	-2.63	-2.35	-2.54	-0.85	-0.77	-0.93	-1.32	-0.85	-1.49
231779	-0.93	-0.85	-1.00	-1.26	-0.77	-1.20	-0.68	-1.00	-0.77	-0.26	-0.49	0.38	0.00	0.14	-1.00

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
234123	0.14	-0.26	0.26	-0.93	-1.07	-1.07	-1.32	-1.26	-1.07	-0.49	-0.93	0.26	0.26	0.26	-0.85
1833801	0.58	-0.26	0.14	0.68	0.68	0.49	-0.14	-0.26	x	-0.14	0.68	0.77	0.93	1.07	0.00
1923613	0.14	-0.14	-0.38	0.26	0.26	0.00	-0.93	-1.07	-0.26	-0.38	-0.49	-1.07	-1.00	-1.00	0.14
2058620	0.77	0.38	0.93	1.07	0.38	0.14	-0.68	-0.38	0.00	-0.49	-0.77	-0.49	-0.68	-0.14	-0.93
1930954	0.58	-0.14	0.49	0.68	0.49	0.38	0.00	-0.26	x	0.00	0.00	0.38	0.38	0.38	-0.58
1511658	-4.14	-4.22	-4.73	-4.17	-3.78	-4.20	-4.55	-4.81	-4.56	-3.94	-2.74	-4.96	-4.56	-4.85	-4.44
2590673	-0.77	-1.00	-0.68	-1.00	-1.07	-1.32	-1.49	-1.43	-1.32	-0.26	-1.00	-1.49	-1.14	-1.58	-0.93
1995380	-1.49	-1.54	-0.93	-1.58	-1.38	-1.43	-1.07	-1.68	0.26	-0.14	-0.26	-0.38	-0.49	0.26	0.93
167409	-3.54	-3.75	-4.34	-3.31	-3.42	-3.63	-3.83	-3.84	-3.36	-1.81	-2.46	-4.39	-3.17	-3.69	-3.61
1846226	-1.54	-1.14	-1.32	-1.43	-1.07	-1.58	0.26	0.38	0.77	0.00	-0.14	0.14	0.38	0.68	-0.49
2052185	-3.02	-3.09	-4.51	-2.81	-2.41	-2.89	-3.31	-3.19	-3.42	-3.49	-3.94	-3.57	-2.85	-3.55	-3.28
2517389	-1.32	-1.81	-0.85	-1.32	-1.54	-1.72	-1.85	-1.93	-1.85	-1.32	-1.32	-1.54	-1.89	-1.72	-1.58
911015	-1.00	-1.20	-1.43	-0.77	-0.49	-0.77	-0.85	-1.00	-0.77	-0.49	-0.38	-0.38	-0.14	-0.14	0.00
604856	-1.14	-0.26	-0.58	-1.07	-0.77	-1.54	-1.26	-1.68	-1.32	-1.00	-0.14	-1.68	-1.85	-1.20	-0.58
1448718	-2.49	-2.10	-2.89	-1.72	-0.77	-2.32	-2.14	-1.43	-1.68	-0.68	-2.66	-2.58	-1.58	-2.04	-1.72
2517268	-1.07	-1.49	-1.68	-1.26	-1.38	-1.54	-2.07	-1.89	-2.10	-1.43	-1.54	-1.93	-1.81	-1.96	-1.68
167134	-0.49	-1.00	-1.26	-1.49	-1.68	-1.81	-2.41	-2.20	-2.38	-0.93	-1.14	-1.68	-1.43	-1.89	-1.96
2843638	0.26	-0.38	0.14	-0.58	-0.26	-0.38	-0.14	-0.14	0.77	0.00	0.00	-0.14	-0.26	-0.26	0.49
1813269	-1.81	-1.43	-2.00	-2.58	-1.85	-1.93	-0.14	-0.49	-2.10	-1.54	-2.38	-1.43	-1.00	-0.49	0.49
1861971	-4.31	-4.39	-4.51	-4.11	-3.86	-3.91	-4.55	-4.07	-4.36	-3.88	-4.02	-5.78	-4.69	-5.18	-3.34
2005973	-0.14	-1.14	-1.43	-1.72	-1.38	-1.00	-1.77	-1.77	-1.93	-0.26	0.00	-0.77	-0.58	0.26	-1.38
2515729	-2.58	-2.79	-2.10	-2.20	-2.10	-2.54	-2.85	-2.89	-3.23	-2.66	-2.58	-2.43	-2.74	-2.07	-2.32
2132356	-0.77	-0.77	-1.49	-0.26	0.00	-0.38	-0.85	-0.68	x	-0.68	-1.07	-1.14	-0.77	-0.93	-0.58
1001726	-0.38	-0.38	-0.77	-0.68	-0.26	-0.68	-0.38	-0.58	x	-0.77	-0.49	-1.00	-1.00	-1.32	0.38
2631845	-2.77	-2.35	-1.96	-1.96	-0.38	-2.07	-2.10	-2.46	-2.46	-1.38	-1.58	-2.00	-2.46	0.14	-0.38
86390	-0.85	-0.58	-1.89	-0.93	-0.14	-0.85	-0.68	-1.07	-0.77	-0.68	-0.77	-1.38	-1.20	-1.07	-0.26
1287840	-0.26	-0.14	0.38	-0.26	-0.38	-0.38	-0.26	-0.14	0.14	0.26	-0.14	0.38	0.49	0.49	-0.26
2516905	0.26	-0.49	-0.77	-0.38	-0.68	-0.58	-0.93	-1.14	-1.32	-0.49	-0.26	-0.49	-0.93	-0.77	-0.58
606122	-1.20	-1.43	-0.77	-1.20	-1.32	-1.43	-1.49	-1.77	-1.58	-0.68	-1.38	-0.85	-1.26	-1.20	-1.14
3553733	-0.85	-0.68	-2.20	-0.26	-0.38	-0.58	-1.49	-1.32	-1.54	-1.20	-0.68	-1.20	-0.85	-1.26	-0.58

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
1813381	0.14	-1.20	-2.20	-1.77	-1.38	-1.81	-2.23	-2.17	-1.81	-2.20	-2.49	-2.70	-2.29	-2.83	-2.43
1988108	-1.58	-0.85	-1.00	-1.07	-0.85	-1.00	0.77	1.20	1.96	-0.38	-0.49	-0.68	-0.49	-0.26	0.00
1644648	-1.81	-1.81	-1.93	-1.38	-0.58	-1.20	-1.68	-1.49	-1.32	-0.26	0.00	1.32	0.58	1.49	-1.07
2516104	-2.61	-2.94	-2.56	-2.23	-2.04	-2.10	-2.79	-2.77	-2.43	-2.32	-3.28	0.14	2.00	0.85	-2.58
2516448	-1.38	-1.43	-0.38	-0.58	-0.77	-0.38	-1.26	-1.26	-1.32	-1.63	-1.77	0.49	1.54	0.77	-1.07
2514507	-3.82	-3.36	-1.93	-1.72	-1.43	-1.89	-2.14	-2.26	-2.20	-2.46	-3.07	-0.68	0.77	0.68	-2.17
1427470	-0.68	-1.20	-0.68	-0.77	-1.07	-1.20	-1.14	-1.49	0.58	0.14	0.38	1.49	1.20	1.58	0.00
1311471	-1.49	-2.23	-2.20	-1.81	-0.77	-1.07	-1.14	-1.07	-1.32	-1.20	-1.63	0.49	0.93	1.00	-1.14
195142	-2.32	-2.51	-3.54	-2.07	-1.96	-2.17	-3.10	-2.66	-2.77	-0.38	-0.14	0.49	0.14	0.68	-2.56
29598	-3.63	-3.43	-4.39	-3.32	-2.20	-3.25	-3.14	-3.41	-2.35	-0.85	-0.68	1.00	1.26	1.32	-2.43
1968576	-1.43	-1.49	-1.49	-0.93	-1.14	-1.38	-1.49	-1.68	-1.38	0.00	0.00	1.58	1.14	1.07	0.38
2959255	-2.35	-1.93	-0.93	-1.20	-1.20	-1.26	-0.14	-0.14	0.68	-0.77	-1.43	1.26	1.20	1.58	-0.77
446969	-2.26	-2.29	-3.20	-3.02	-2.74	-2.81	-3.23	-3.22	-3.35	-1.43	-1.20	0.14	0.77	0.77	-0.85
1631511	-2.14	-2.20	-3.25	-2.23	-2.04	-2.35	-2.85	-2.58	-2.26	-1.14	-2.23	1.63	1.63	1.85	-1.14
1508741	-2.14	-2.38	-2.68	-2.10	-1.72	-2.20	-2.98	-2.96	-2.17	-2.41	-2.83	-3.55	-2.10	-3.10	0.14
2513602	-1.14	-1.49	-1.85	-1.43	-1.26	-1.58	-1.63	-1.77	-2.00	-1.93	-1.63	-1.72	-2.23	-2.29	-1.81
1981145	-1.20	-1.77	-1.20	-1.85	-1.07	-1.68	-1.43	-1.32	-1.63	-1.58	-1.63	-0.26	0.00	0.14	-1.68
2103752	-1.26	-1.07	-0.68	-1.63	-1.32	-1.77	-1.32	-1.43	0.14	-0.26	-0.58	0.38	0.00	0.14	0.38
2658782	-2.10	-2.14	-2.26	-2.58	-1.81	-2.66	-3.20	-2.91	x	-1.93	-2.14	-0.14	-0.49	0.00	-2.00
2099420	-1.00	-1.32	-1.00	-1.32	-1.26	-1.58	-1.85	-2.07	-2.07	-1.43	-1.72	-0.93	-1.20	-1.43	-1.14
637639	-2.04	-1.96	-1.77	-2.14	-1.43	-1.81	-2.04	-2.10	-1.96	-1.89	-1.93	-2.85	-1.96	-2.72	-1.07
279249	-2.29	-2.46	-2.43	-2.70	-2.58	-2.89	-3.29	-3.09	-2.81	-2.46	-3.12	-3.25	-2.56	-3.61	-2.85
1379063	-1.77	-1.93	-3.19	-1.58	-0.85	-1.68	-1.58	-1.63	-1.38	-0.93	-0.77	-0.77	-0.14	-0.26	-0.58
89747	-2.26	-2.49	-3.25	-2.72	-2.07	-2.41	-2.93	-2.98	-3.04	-2.54	-2.94	-2.98	-2.29	-3.22	-2.49
2515873	-1.49	-1.43	-2.10	-1.07	-1.26	-1.89	-1.54	-1.38	-1.54	-1.93	-1.96	-2.17	-1.89	-2.04	-2.07
1432372	-1.07	-1.38	-2.14	-1.32	-1.00	-1.26	-1.81	-1.72	-1.58	0.58	0.26	0.38	0.58	0.85	0.38
1633719	-2.51	-3.07	-2.81	-2.72	-2.23	-2.61	-3.09	-3.47	-3.05	-2.81	-2.49	-0.26	-0.38	-0.49	-2.43
1712663	-0.93	-1.26	-1.38	-1.43	-1.00	-1.26	-1.14	-1.38	-1.07	-0.85	-0.49	-1.07	-1.00	-1.54	-0.58
4285203	-0.93	-0.93	-2.07	0.58	1.20	0.58	-0.77	-0.68	-1.54	-1.38	-1.07	-0.68	-0.58	-0.68	0.00
1634342	-0.93	-0.77	-1.32	-1.20	-0.77	-1.58	-0.93	-0.58	-0.38	0.26	-0.38	0.26	0.93	0.77	0.00

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
1418871	-0.77	-1.07	-0.58	-0.58	-0.38	-0.77	-0.93	-1.07	-1.26	-1.14	-0.93	-1.26	-1.07	-1.14	-0.38
3766382	-1.54	-1.07	-1.49	-1.43	-0.85	-1.43	-0.14	-0.26	-1.14	-0.38	-0.58	-0.38	-0.77	-0.58	-1.00
943181	-0.58	-0.85	-1.07	-0.77	-0.77	-0.77	-1.20	-1.20	-1.20	-1.07	-1.07	-1.26	-1.07	-1.32	-0.85
603761	-1.54	-1.54	-2.63	-1.49	-0.58	-1.68	-1.81	-1.93	x	-1.07	-1.68	-2.04	-1.81	-1.96	-1.32
1297562	0.14	0.00	0.49	-1.58	-0.58	-1.07	-0.14	0.93	-0.77	-1.38	-1.89	-1.96	-1.32	-1.81	0.93
2910715	-0.93	-1.43	-0.85	-1.00	-1.00	-1.14	-1.49	-1.26	-1.85	-0.26	0.58	-1.38	-1.26	-1.49	0.38
196975	0.49	0.38	0.00	-0.14	0.14	-0.26	-0.49	-0.26	x	0.00	0.00	-0.14	-0.14	0.00	-0.14
1453049	0.00	-0.68	-1.77	-0.68	-0.38	-1.07	-1.14	-1.00	x	0.93	1.07	0.14	0.38	0.38	0.85
1968695	-0.49	-1.00	-0.58	-0.93	-0.49	-0.49	0.00	-0.26	-0.38	-0.26	-0.49	1.14	1.00	1.58	0.00
958344	-3.12	-2.98	-2.35	-3.28	-2.74	-3.26	-3.86	-3.68	-3.68	-3.14	-3.29	-3.63	-3.67	-3.68	-3.42
2820985	-1.68	-1.72	-2.70	-1.85	-1.00	-2.07	-2.10	-2.14	-1.49	-0.68	-2.20	1.00	1.72	1.49	-1.93
1633393	-0.58	-1.00	-0.49	-1.63	-1.07	-1.54	-1.07	-1.14	-0.49	-0.77	-0.77	1.20	1.14	1.38	-0.77
1806451	-1.00	-1.26	-1.26	-0.49	-0.58	-0.77	-0.58	0.00	-1.14	-0.77	-0.85	1.54	1.00	1.72	-1.38
2674772	-2.61	-2.66	-3.34	-2.66	-1.77	-2.46	-2.74	-2.79	-2.68	-2.29	-2.14	0.93	0.85	1.14	-2.35
1376121	-1.32	-1.07	-1.14	-1.43	-1.00	-1.26	-1.68	-1.38	-1.26	-0.26	-0.38	-1.38	-0.93	-1.20	1.20
831794	-0.38	-0.58	-0.85	0.26	0.00	0.00	-1.54	-1.32	-1.58	-1.00	-1.32	-1.81	-1.63	-1.77	-1.00
1427681	-1.81	-1.89	-2.38	-1.85	-0.49	-1.58	-2.04	-1.68	-1.38	-2.00	-2.10	-2.56	-1.96	-2.07	-1.38
2912830	-2.74	-2.74	-2.89	-3.05	-1.77	-2.83	-3.50	-3.51	-2.23	-2.14	-2.77	-3.57	-2.77	-3.23	-2.83
504786	-1.81	-1.54	-2.14	-2.17	-1.32	-2.04	-2.38	-2.07	-2.38	-1.14	0.00	-2.43	-2.10	-2.04	-1.93
254081	-4.79	-4.94	-4.26	-4.38	-4.55	-4.51	-5.28	-5.28	-4.89	-4.94	-5.26	-5.93	-5.60	-6.02	-4.73
1330674	-3.60	-3.75	-4.04	-4.61	-3.77	-3.58	-4.28	-4.34	-4.68	-4.32	-4.25	-5.29	-4.38	-4.87	-3.52
2377834	-5.75	-5.97	-5.94	-4.49	-4.96	-5.05	-5.74	-5.57	-5.88	-6.13	-6.05	-6.26	-6.14	-6.31	-5.19
2075464	-4.33	-4.61	-3.75	-3.87	-3.31	-3.77	-4.12	-3.96	-4.41	-3.09	-2.41	-4.27	-4.13	-4.38	-3.88
2383235	-4.67	-4.87	-5.39	-4.49	-3.78	-3.68	-4.18	-4.34	-4.97	-4.93	-4.93	-5.76	-5.41	-5.76	-3.89
1285503	-1.43	-1.96	-2.63	-1.49	-0.85	-1.58	-2.07	-2.07	-1.89	-0.85	-1.81	-0.49	-0.26	-0.14	-0.58
2383205	-4.72	-4.93	-5.25	-4.34	-3.87	-4.28	-4.78	-4.69	-4.66	-4.78	-5.03	-5.41	-4.96	-5.29	-4.29
2015871	-5.04	-4.90	-2.89	-3.85	-3.09	-3.98	-4.15	-4.12	-4.36	-4.66	-4.98	-4.65	-5.10	-4.88	-4.22
2374046	-0.77	-0.93	0.49	-0.93	-1.26	-1.20	-1.32	-1.58	-1.49	-0.93	-1.20	-0.58	-0.93	-1.00	-0.58
1709828	-0.68	-0.58	-0.85	-1.07	-0.49	-0.85	-0.58	-0.58	0.85	0.58	0.49	0.38	0.68	0.49	0.49
2061119	0.49	0.26	0.49	1.07	1.26	0.93	1.32	1.32	1.54	0.49	-0.14	0.49	-0.14	0.58	-0.68

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
3665105	-2.41	-2.56	-4.06	-2.98	-2.87	-3.32	-3.45	-3.63	-3.75	-3.00	-3.25	-2.61	-2.66	-2.87	-3.00
2068983	-3.15	-3.34	-4.01	-3.38	-2.94	-3.09	-3.23	-3.36	-3.14	-2.70	-2.89	-3.14	-1.63	-2.17	-2.85
2242648	-3.02	-2.85	-2.43	-3.05	-2.77	-2.35	-3.05	-2.79	-3.02	-3.31	-3.19	-3.41	-3.00	-3.02	-2.72
885032	-2.00	-2.14	-1.26	-2.51	-1.85	-2.49	-2.58	-2.56	-2.85	-1.96	-1.77	-2.56	-2.04	-2.07	-2.54
2383830	-5.43	-5.44	-5.52	-4.50	-1.85	-4.12	-4.47	-4.74	-4.47	-4.29	-5.38	-5.48	-4.98	-5.38	-3.79
2085191	-6.27	-6.31	-5.57	-6.41	-5.71	-5.49	-6.36	-6.35	-6.11	-5.93	-6.41	-5.34	-5.04	-4.61	-5.96
2792982	-6.01	-5.87	-3.51	-5.27	-4.52	-4.69	-5.09	-5.16	-5.05	-4.81	-5.17	-3.92	-3.79	-3.29	-5.18
179929	1.38	2.20	1.20	-1.58	-1.89	-2.00	-1.93	-1.32	-1.89	0.68	0.93	0.77	1.26	1.43	-1.20
2741788	-1.58	-1.26	-1.07	-1.93	-1.58	-1.85	-0.26	0.00	0.93	-0.14	0.00	0.26	0.00	0.85	-1.81
2373608	-3.91	-4.35	-2.74	-2.83	-2.72	-3.43	-3.22	-3.09	-3.99	-0.77	-0.26	-2.29	-2.38	-2.14	-2.89
2182095	-3.43	-3.74	-2.61	-3.12	-2.61	-3.25	-3.45	-3.23	-4.02	0.38	-1.26	1.14	1.58	2.56	-3.35
2923150	-6.10	-6.51	-5.69	-5.68	-4.84	-5.13	-5.71	-5.82	-5.80	-1.81	-2.14	-2.46	-0.68	-0.68	-5.13
293495	-0.14	-1.32	-1.77	-2.49	-1.93	-2.41	-2.43	-3.05	-1.00	-1.00	-0.58	-2.04	-2.56	-2.17	-1.32
4284270	-1.20	-1.54	-2.23	-1.07	-0.85	-1.26	-1.49	-1.49	-1.77	-1.68	-1.77	-1.72	-1.54	-1.81	-0.85
958923	-0.77	-0.77	-1.00	-1.07	-0.77	-1.07	-0.58	-0.77	-0.58	-0.68	-0.68	-0.68	-1.07	-0.77	-0.26
1921393	-2.66	-2.72	-2.74	-2.87	-1.85	-2.87	-1.14	-1.20	-2.51	1.38	2.07	-2.00	-1.58	-1.54	-2.14
1447866	-0.38	-0.49	-0.38	-0.38	-0.38	0.00	0.00	-0.14	-0.38	0.49	0.77	0.14	0.49	0.38	0.68
1666737	-0.68	-1.00	-1.68	-0.68	-0.26	-0.49	-0.14	-0.38	-0.93	0.14	0.49	0.14	0.49	0.49	1.07
586245	-1.14	0.00	-1.32	-0.85	-0.58	-0.68	1.38	1.20	-0.68	-0.68	-0.49	-0.58	-0.49	0.00	-1.07
194162	-1.38	-1.38	-3.02	-1.72	-0.38	-1.26	-1.93	-1.72	-1.81	2.46	2.38	-0.77	0.93	2.20	-0.77
243123	-1.32	-1.20	-2.54	-1.63	-1.32	-1.32	-1.77	-1.63	-1.93	-1.26	-0.68	-1.49	-1.26	-1.32	-2.07
382416	-1.49	-0.68	-0.93	-0.93	-0.93	-0.93	-0.77	-0.77	-0.77	-1.54	-2.66	-3.04	-1.89	-2.26	-1.07
1852659	-1.58	-1.93	-0.58	-1.77	-1.77	-2.20	-1.96	-1.85	-2.17	-2.00	-2.29	-1.58	-1.68	-1.96	-1.72
3220181	-0.38	-0.93	-0.85	-0.68	-0.85	-1.00	-0.77	-0.38	-0.14	-0.14	-0.68	1.14	1.32	1.20	-1.00
1726307	-0.93	-1.14	-1.07	0.26	0.49	0.14	0.00	-0.38	0.14	-0.58	-0.14	-1.20	-0.77	-0.85	-0.77
1904244	0.00	-0.14	-0.49	0.14	0.26	0.00	-0.14	-0.49	0.26	-0.58	-0.49	-0.38	0.14	-0.49	-0.14
2039955	-1.00	-1.07	-1.68	-0.93	-0.49	-0.68	-1.20	-1.00	-1.26	-1.32	-1.00	-1.63	-0.77	-1.38	-0.85
2675641	-1.14	-0.68	-1.00	-1.77	-0.93	-1.43	-0.14	-0.38	-0.38	-0.26	-0.68	-0.77	-0.85	-0.93	-1.38
1412749	-0.14	-0.85	-0.14	-0.85	-0.93	-1.00	-1.14	-1.32	-1.54	-0.49	-0.38	-0.14	-0.58	-0.58	-0.93
1963854	-0.49	-0.58	-1.26	-1.00	-0.85	-1.26	0.00	0.14	-0.26	0.26	-0.14	0.68	0.49	1.07	-0.93

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
2949085	0.14	0.00	-0.38	-0.49	-0.77	-0.85	0.26	0.26	0.00	-0.49	-0.38	-0.93	-0.49	-0.77	-0.68
2963196	-0.68	-1.00	-2.00	-1.00	-1.00	-1.32	-1.58	-1.77	-1.89	-1.07	-1.49	-1.38	-1.49	-1.68	-2.14
1505977	-1.26	-1.00	-2.20	-1.77	-1.58	-1.68	-1.20	-0.68	-1.77	-1.20	-1.89	-2.49	-1.49	-2.38	-1.68
1674985	0.38	-0.14	0.26	-0.58	-0.68	-0.77	-0.58	-0.49	-0.38	-0.77	-1.00	-0.49	-0.49	-0.77	-0.77
2109054	0.58	0.68	-0.38	1.26	1.58	0.85	0.14	0.14	0.14	-0.58	-0.85	-1.43	-0.93	-1.43	-0.85
3317039	-0.49	-0.49	-1.43	-0.26	-0.26	-0.38	-0.38	-0.26	-0.14	-0.26	-0.38	-0.85	-0.58	-0.93	-0.77
2838551	-0.38	-0.68	-0.49	-0.68	-0.58	-0.68	-0.26	-0.58	-0.68	-0.58	-0.77	-0.49	-0.93	-0.77	-0.58
1477568	-0.26	-0.14	-0.49	-1.00	-0.58	-1.38	-1.00	-1.32	-1.77	-1.00	-1.14	-2.00	-1.81	-1.00	-1.77
2963871	-0.77	-0.49	-0.38	-0.68	-0.38	-0.77	0.49	0.68	0.00	-0.26	-0.26	-0.58	0.14	0.00	0.00
1740547	-1.07	-0.85	-1.00	-1.32	-1.07	-1.07	-1.00	-1.20	-1.26	-0.85	-0.93	-1.00	-0.77	-0.85	-1.00
2292011	-1.14	-1.32	-1.96	-1.96	-1.43	-2.04	-1.85	-1.49	-2.32	-1.38	-2.04	-2.54	-1.77	-2.46	-1.43
1349484	-0.14	0.00	-0.77	0.14	0.49	0.00	0.26	0.14	x	-0.58	-0.26	-0.49	-0.38	-0.26	0.00
1674253	-0.77	-0.68	-1.07	-0.68	-0.49	-0.68	-1.20	-1.07	-0.85	-0.85	-0.93	-0.85	-0.68	-0.77	0.38
1932189	-1.43	-1.81	-1.77	-2.20	-2.04	-2.46	-2.77	-2.68	-2.91	-1.72	-2.04	-2.10	-2.00	-2.00	-2.74
1403041	0.77	-0.26	-1.20	0.00	0.26	-0.68	0.14	-0.26	-0.93	-0.68	-0.85	-1.14	-0.85	-1.00	-0.38
1486358	-1.00	-1.00	-1.38	-1.77	-1.72	-2.23	-1.63	-1.20	-1.07	-1.32	-1.58	-1.89	-1.58	-1.43	-1.72
1439065	0.38	0.00	0.14	-0.38	-0.49	-0.14	-0.58	-0.49	x	-0.14	-0.38	-0.26	0.14	-0.26	0.00
530629	-0.26	-0.38	-1.72	-0.26	0.00	-0.38	-0.58	-0.93	x	-0.68	-1.00	-0.93	-0.14	-0.58	-0.14
1672676	-1.20	-1.07	-1.54	-1.81	-1.63	-1.58	-0.93	-0.85	-1.00	-1.32	-1.81	-1.89	-1.32	-1.68	-1.81
1989129	-1.00	-0.49	-1.43	-1.07	-0.85	-1.14	-0.38	-0.26	-0.58	-0.58	-0.38	-0.77	-0.58	-0.49	-0.68
1486348	-2.58	-2.17	-2.77	-1.00	-0.85	-1.58	-1.14	-1.00	-1.07	-1.68	-1.96	-1.81	-1.81	-1.81	-1.20
1397294	-0.58	-1.00	-1.63	-0.85	-0.26	-0.49	-1.00	-0.68	-1.43	-0.68	-0.49	-1.49	-1.07	-0.68	-0.26
2844322	-1.26	-0.68	-1.26	-1.32	-1.38	-1.49	-0.68	-0.77	-1.20	-1.26	-1.81	-1.85	-1.49	-1.85	-1.00
1481440	-0.93	-0.85	-2.10	-0.38	-0.26	-0.58	-1.07	-0.77	0.00	-1.07	-1.32	-1.20	-0.93	-1.20	-0.58
26459	0.14	-0.58	-0.14	-1.14	-1.43	-1.49	-1.68	-1.58	-1.63	-1.00	-1.20	-1.43	-1.49	-1.49	-1.00
1406786	-1.32	-1.00	-0.77	0.14	-0.26	-0.14	-0.14	-0.49	-0.38	-0.68	-0.58	-1.14	-0.93	-1.07	-0.58
1485846	-4.60	-4.04	-4.43	-4.69	-4.13	-4.34	-3.92	-4.04	-4.36	-4.25	-4.69	-4.26	-3.79	-4.02	-4.72
2153242	-1.68	-1.96	-1.93	-1.72	-1.26	-1.72	-1.85	-1.93	-2.10	-1.49	-1.54	-0.93	-1.20	-1.00	-1.26
2157981	-0.77	-1.85	-1.85	-2.00	-1.20	-1.81	-2.10	-1.07	-1.38	-1.49	-1.20	-2.07	-1.63	-1.93	-1.68
3244361	-1.00	-0.49	-1.26	-0.49	-0.38	-0.58	-0.68	-0.68	-1.00	-0.77	-0.85	-1.20	-0.85	-0.93	-1.00

Table 3

Clone ID	Ventricle (122)	Heart (1822)	Heart (B7015)	Skeletal Muscle (6986)	Tibia (376)	Thigh (4071)	Uterus (6987)	Uterus (6988)	Ovary (1119)	Stomach (6989)	Stomach (6990)	Small Intest (6991)	Small Intest (6991)	Colon (6392)	Lung (3779)
1986737	-1.32	-0.49	-1.07	0.68	0.26	-0.14	-1.26	-0.77	-1.96	-1.63	-2.10	-1.54	-1.54	-1.20	-1.63
2506867	-2.38	-1.49	-3.04	-1.49	-1.00	-2.04	-2.07	-0.77	-0.49	-2.41	-2.61	-2.04	-1.58	-1.81	-2.07
1211682	1.38	0.85	0.68	-1.96	-1.54	-2.04	-1.81	-1.85	-1.14	-1.26	-1.43	-0.49	-0.38	-0.49	-2.10
1416354	2.10	0.49	1.32	-1.43	-0.93	-1.58	-1.00	-0.85	-1.43	-1.54	-1.63	-1.20	-1.00	-1.14	-1.38
2963962	1.20	0.77	0.68	-1.07	-0.38	-1.20	0.68	1.49	-0.38	-0.58	-0.93	-0.93	-0.85	-0.68	-1.43
1761086	0.14	0.14	-0.49	0.49	0.00	0.14	-1.93	-2.00	-2.26	-0.14	-0.26	0.68	0.93	0.93	-1.54
2588552	-0.77	-0.77	-2.29	1.00	0.26	0.38	-1.89	-1.89	-1.77	-0.49	-0.85	-1.85	-1.00	-1.77	1.20
1901271	-1.38	-1.00	-1.89	-2.63	-2.17	-2.07	-1.43	-1.43	-0.68	-0.93	-0.77	0.14	0.77	0.68	-0.68
1740924	-0.14	-0.58	-0.49	-0.68	-0.85	-0.85	-1.14	-1.26	-1.00	-0.58	-0.58	-0.68	-0.77	-1.20	-0.68
1480159	-1.68	-1.58	-2.04	-1.00	-0.93	-1.00	-1.93	-1.54	-1.77	-1.77	-1.63	-1.77	-1.20	-1.32	-1.38

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
2380381	-0.93	-0.77	0.68	1.07	0.58	1.00	0.49	0.77	-1.00	-1.00	-1.26	-0.49	-0.77	-0.93	-1.07
1618422	-0.14	0.00	-1.38	-1.63	-1.14	-1.49	-1.38	-1.43	-0.49	-0.14	-0.14	-0.49	0.26	0.77	-0.49
2672064	0.14	0.26	-1.38	-1.32	-1.89	0.00	0.00	0.38	-1.77	-0.49	-1.32	0.00	0.58	0.14	0.14
608361	0.14	0.00	-0.38	-0.68	-0.14	-1.00	-0.77	-1.14	0.93	0.14	0.00	-0.26	-0.85	-1.14	-0.68
1922596	-1.93	-1.77	1.26	1.81	0.49	0.85	0.26	0.49	-1.58	-1.63	-2.10	-1.38	1.32	0.58	-0.14
1850033	-2.79	-2.38	-3.05	-2.66	-2.14	-2.51	-2.32	-2.77	-2.14	-2.26	-2.20	-2.23	-2.14	-2.83	-2.23
986987	-2.91	-2.51	-2.93	-2.85	-2.70	-2.91	-2.93	-3.07	-2.77	-3.00	-2.35	-2.38	-3.15	-3.38	-2.72
718807	-1.58	-1.54	-1.32	-2.07	-1.58	-2.49	-1.93	-2.10	-0.58	-1.81	-1.38	-1.77	0.49	0.26	0.38
2880435	-0.49	-0.58	-0.68	-0.77	-0.49	-0.14	-0.26	0.00	-0.58	-0.68	0.00	-0.14	-0.38	0.26	0.26
187326	-2.85	-2.91	-2.43	-2.66	-2.72	-3.00	-3.75	-2.83	-2.32	-2.56	-2.89	-2.49	-3.22	-3.25	-2.20
1997963	-1.68	-1.63	-2.32	-1.58	-2.04	0.00	-0.77	-0.49	-1.68	-2.58	-2.63	-1.89	-0.26	-1.00	-1.14
467700	-2.07	-2.54	-2.43	-2.38	-2.14	-2.41	-2.35	-2.41	-1.96	-2.29	-2.07	-1.81	-3.17	-2.61	-1.89
57382	-3.57	-3.51	-3.51	-3.45	-3.20	-1.63	-2.43	-2.20	-3.19	-3.66	-3.12	-3.29	-1.43	-2.14	-1.85
1222442	-2.04	-1.77	-0.68	0.26	0.49	0.93	0.38	0.68	-1.26	-1.32	-1.58	-1.00	0.14	-0.58	-0.77
4013105	-3.05	-2.81	-3.25	-3.15	-2.85	-0.26	-1.20	-0.85	-2.83	-1.38	-2.68	-0.93	-0.58	-1.32	-1.81
924319	-0.68	-2.51	-4.03	-4.03	-3.39	-4.17	-4.19	-4.38	-3.68	-3.96	-3.69	-3.68	-4.45	-4.63	-4.08
1645119	-1.38	-1.38	-0.77	-0.68	-0.68	-0.85	-0.77	-1.00	-1.00	-1.26	-1.07	-0.85	-0.38	-1.20	-0.93
1379925	-2.29	-2.17	-1.93	-1.81	-1.72	-1.58	-1.58	-1.96	-2.10	-0.93	-1.68	-1.54	-1.54	-2.14	-1.43
1900961	-2.46	-2.56	-2.29	-2.00	-1.93	-1.85	-1.96	-1.81	-1.96	-2.70	-1.89	-1.89	-1.85	-2.29	-2.58
3506985	-0.68	-0.58	-1.93	-1.63	-2.54	-2.54	-2.77	-2.43	-2.43	0.85	0.14	2.77	-3.12	-3.45	-2.49
551403	-1.58	-1.58	-1.43	-2.23	-1.26	-1.20	-1.77	-1.81	-0.26	-2.00	-1.43	-1.81	1.38	1.00	0.68
3948420	-1.49	-1.93	-2.81	-2.94	-2.74	-1.54	-2.17	-2.23	-0.49	-2.87	-2.23	-2.61	1.38	1.26	0.85
1722853	-0.38	-0.26	-1.20	-0.26	-1.14	-0.38	-0.38	-0.14	-1.26	-1.58	-1.32	-1.49	-0.38	-0.26	-0.26
1557490	-1.85	-1.77	-2.85	-2.23	-2.81	-1.07	-1.32	-1.00	-1.93	-0.58	-1.68	-0.58	1.58	1.20	0.38
3208425	-1.32	-1.32	-2.23	-2.14	-1.89	-0.26	-0.77	-0.14	-1.77	-1.93	-2.46	-1.20	0.68	0.38	-0.49
1668474	-1.89	-1.58	-1.68	-1.68	-1.58	-2.14	-1.72	-1.77	-1.20	-1.54	-1.14	-1.20	-0.68	-1.26	-0.93
1622542	-0.85	-1.14	-0.85	-1.32	-1.20	-1.07	-0.58	-1.32	-0.77	-0.38	0.14	-0.49	1.00	1.07	0.49
4014318	-0.85	-0.68	-0.85	-0.49	-0.26	-0.68	-0.93	-0.68	-0.26	0.00	-0.58	0.14	-1.20	-1.49	-0.49
2394888	-0.77	-0.38	-0.14	0.14	-1.20	0.77	-0.38	-0.26	-1.81	-1.07	-1.07	-1.43	0.68	0.68	1.07
1345550	-3.17	-4.25	-3.83	-4.33	-4.10	-4.68	-4.63	-4.57	-4.39	-4.19	-4.04	-3.35	-4.71	-4.69	-3.69

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
1719955	-1.54	-1.49	-1.77	-1.54	-0.77	-1.14	-1.32	-0.85	-3.10	-2.83	-3.12	-2.29	-0.49	-1.14	-1.26
2256026	-1.14	-1.20	-0.85	-1.14	-0.14	-1.38	-1.20	-0.85	-0.26	-0.68	-0.93	-0.38	-1.20	-1.20	-0.68
1538086	-1.32	-1.43	1.26	1.14	1.20	-0.14	0.14	-0.26	0.00	-1.20	-1.00	-1.00	0.00	-0.14	-0.68
958633	-0.38	-0.26	-0.77	-0.38	-0.58	0.14	0.14	0.49	0.49	-0.77	-0.58	-0.38	0.49	-0.26	-0.14
2635943	-3.87	-3.41	-3.60	-3.23	-3.20	-3.74	-3.86	-3.28	-3.74	-3.52	-3.31	-3.26	-2.93	-3.39	-2.66
121888	-4.15	-4.26	-3.83	-3.81	-3.15	-4.05	-4.01	-3.94	-3.78	-3.54	-3.93	-4.04	-3.31	-4.38	-3.91
1627492	-0.77	-0.68	-0.93	-1.07	-1.20	-0.26	-0.58	0.00	-1.00	-1.07	-1.26	-0.38	0.26	-0.26	-0.26
4073867	-1.00	-1.07	1.26	1.49	1.93	1.32	0.49	0.58	-0.49	-0.58	-0.93	-0.14	-0.77	-1.07	-0.38
2190170	-0.38	0.00	-1.14	-0.68	-0.58	0.14	-0.26	0.00	-0.77	-0.38	-0.58	0.38	0.38	0.00	0.38
972224	-4.20	-4.10	-4.26	-4.05	-3.93	-3.80	-4.39	-4.26	-4.39	-3.87	-4.34	-3.85	-4.71	-5.00	-3.80
1413644	-2.35	-1.89	-2.17	-2.04	-2.46	-1.49	-2.17	-1.43	-2.10	-2.20	-1.63	-1.58	1.43	0.68	-0.58
1538224	0.26	-0.14	0.00	-0.26	0.14	-0.14	-0.38	0.38	-0.58	-0.93	-0.58	-0.38	-0.38	-0.49	-0.26
2623268	-1.32	-0.85	-2.29	-1.93	-1.81	-0.58	-1.20	-0.38	-2.14	-1.26	-1.49	-0.93	0.49	-0.26	-0.38
1665533	0.00	0.14	-1.07	-0.49	-1.00	0.00	-0.26	0.26	-0.49	-0.26	-0.49	0.26	-0.38	-0.77	-0.14
981484	-1.26	-1.07	-1.26	-1.26	-0.68	-1.14	-1.00	-1.32	-0.77	-0.85	-0.77	-1.20	-0.77	-0.85	-0.38
973629	-3.31	-3.32	-3.70	-3.35	-3.35	-3.25	-3.49	-3.26	-3.32	-2.66	-3.42	-2.51	-3.20	-4.17	-2.85
1539638	-0.38	-0.38	-1.77	-1.49	-1.54	-0.14	-0.58	-0.26	-1.58	-1.00	-1.26	-0.58	-0.14	-0.58	-0.58
3015758	-3.22	-3.25	-2.83	-2.85	-2.51	-3.22	-3.12	-3.47	-1.77	-2.72	-2.68	-2.10	-3.20	-3.55	-2.35
2832314	-0.14	0.14	-2.70	-2.96	-2.91	0.85	0.49	1.00	-2.14	-0.58	-1.00	-0.26	1.43	0.93	0.58
1702996	-0.77	-0.58	-1.58	-1.26	-1.43	-0.58	-1.20	-0.58	-0.93	-1.32	-1.72	-0.58	-0.38	-0.77	-0.49
839947	-0.58	-0.49	-0.49	-0.85	-0.58	-1.00	-0.58	-0.93	-0.77	-0.49	-0.58	-0.68	0.14	0.00	0.14
1867522	-4.10	-4.34	-3.61	-3.78	-3.91	-4.43	-4.30	-4.25	-4.59	-3.86	-4.21	-4.21	-3.80	-4.64	-3.64
1987831	-0.68	-0.58	-1.14	-1.49	-1.00	-1.20	-0.77	-0.93	x	-0.58	-0.38	-0.49	1.54	1.32	0.26
2639708	-3.31	-3.17	-3.32	-2.98	-3.04	-3.32	-3.12	-3.34	-2.72	-2.94	-2.70	-2.63	-2.70	-3.52	-2.72
973815	-3.93	-3.90	-4.11	-4.15	-3.56	-4.03	-3.75	-4.36	-3.51	-2.81	-3.96	-3.47	-3.42	-4.02	-2.79
169884	-2.14	-2.43	-1.63	-1.72	-1.54	-2.43	-2.41	-2.56	x	-1.77	-1.54	-1.54	-1.32	-1.43	-0.85
2638235	-0.68	-0.58	-1.20	-1.26	-0.93	-0.93	-0.77	-1.07	-0.93	-1.72	-1.20	-1.14	-1.20	-1.49	-1.68
305198	-2.14	-2.26	-2.00	-2.07	-1.77	-2.14	-2.41	-2.35	-1.72	-1.43	-2.14	-1.96	-2.07	-1.89	-1.07
57997	-1.96	-2.04	-1.58	-1.77	-1.26	-1.58	-1.77	-1.49	-0.93	-1.68	-1.38	-1.32	-2.10	-2.04	-1.07
986558	-2.35	-2.38	-2.32	-2.38	-2.00	-1.26	-1.85	-1.89	-2.04	-1.81	-2.29	-2.07	-1.20	-1.72	-1.07

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
224996	-1.43	-1.77	-3.10	-3.15	-3.58	-3.35	-3.17	-3.04	-3.25	-2.58	-2.98	-2.41	-1.81	-2.32	-2.14
661259	-1.68	-1.32	0.93	1.32	1.07	0.68	0.00	0.49	-1.89	-1.58	-2.23	-1.07	0.49	-0.26	-0.68
3246379	-1.81	-1.49	-1.96	-1.54	-1.81	-1.49	-1.93	-1.68	-1.81	-1.38	-1.63	-1.26	0.26	0.14	-0.38
78783	0.00	0.00	-1.77	-1.77	-2.46	-0.49	-0.93	-0.14	-1.85	0.00	-1.81	0.14	-1.93	-2.26	-2.14
2639181	-5.27	-5.41	-5.12	-5.06	-5.04	-5.36	-5.79	-5.54	-4.95	-5.07	-4.82	-4.24	-5.57	-5.87	-5.19
1672467	-2.93	-3.09	-0.38	-2.10	-1.72	-2.41	-2.96	-2.94	-1.72	-2.61	-2.63	-2.51	-2.63	-2.83	-2.04
2950063	-3.94	-3.72	-3.87	-3.60	-2.29	-4.39	-4.30	-4.06	-3.41	-3.79	-3.57	-3.57	-4.15	-4.45	-3.38
3288518	-5.54	-5.37	-5.36	-5.26	-5.09	-5.02	-5.06	-4.98	-5.36	-4.78	-4.97	-4.64	-5.71	-5.88	-5.46
184110	-4.13	-3.94	-4.13	-3.61	-4.76	-5.22	-5.50	-4.84	-4.69	-3.75	-4.60	-4.15	-5.61	-5.95	-3.92
1368173	-2.26	-1.77	-3.02	-2.56	-2.43	-0.49	-0.93	-0.85	-2.41	-1.93	-2.23	-2.07	0.00	-0.38	-0.58
1813409	-1.85	-1.43	-1.14	-0.14	-1.72	1.20	0.26	0.68	-0.26	-1.72	-2.17	-1.14	-1.20	-1.49	-1.07
58309	-3.56	-3.38	-3.56	-3.15	-2.46	-2.94	-2.68	-3.51	-3.42	-3.19	-3.83	-3.34	-3.81	-3.68	-3.02
1721744	-0.85	-0.49	-0.58	-0.38	-0.93	-0.93	-1.26	-0.58	0.38	-1.54	-1.58	-0.77	0.26	0.14	0.00
1924344	-1.81	-2.29	-2.10	-2.14	-2.14	-2.61	-3.00	-2.66	-2.38	-1.63	-1.93	-0.85	-2.74	-2.66	-1.68
3176845	-2.66	-2.61	-4.17	-3.88	-3.77	-3.04	-3.39	-2.61	-3.81	-2.87	-3.25	-2.72	-3.58	-3.78	-2.72
2286809	-3.12	-3.07	-0.14	0.26	0.85	1.49	0.58	1.54	-1.85	-2.49	-2.77	-2.38	-0.14	-1.00	0.26
1985244	-1.20	-1.07	0.00	0.85	0.68	-0.14	-0.68	-0.26	1.54	-1.77	-2.35	-1.38	-0.85	-1.38	-1.14
1570042	-1.58	-1.20	-1.07	-1.26	-1.00	-1.38	-1.54	-1.26	-1.00	-0.85	-0.77	-0.38	1.77	1.07	0.49
2079906	-0.68	-0.68	-1.38	-1.00	-1.07	-1.07	-1.38	-0.77	-2.00	-1.20	-1.26	-0.38	-1.20	-1.26	-1.00
2852042	-0.49	-0.77	-2.58	-2.72	-2.49	-1.00	-1.89	-1.54	-1.85	-1.43	-2.07	-0.49	-0.14	-0.14	0.58
1319020	-0.58	-0.58	-2.41	-2.04	-2.54	-0.26	-1.32	-0.14	-1.93	-1.63	-1.58	-1.20	-1.00	-1.00	-1.20
1572555	-1.43	-2.07	-3.42	-3.23	-3.78	-1.68	-2.56	-1.20	-2.04	-2.20	-2.79	-1.58	-2.74	-3.09	-2.58
782235	0.38	-0.93	-2.14	-2.89	-2.51	-1.93	-2.94	-0.14	-2.38	-1.68	-2.10	-1.26	-3.51	-2.89	-2.46
1314882	-0.77	0.38	-2.43	-2.43	-2.77	-1.93	-2.49	-0.77	-2.20	-1.54	-2.38	-0.93	-3.00	-3.09	-2.20
1403636	-0.38	-0.38	-2.54	-2.54	-2.17	-1.77	-2.07	-1.68	-2.23	-1.07	-1.38	-0.38	0.14	-0.38	-0.14
1968921	-0.38	-0.38	-1.07	-1.07	-0.85	-0.38	-0.58	0.14	-0.93	0.00	-0.26	0.14	-0.49	-0.77	-0.93
1558081	0.26	0.00	-2.14	-1.77	-2.04	0.00	-1.43	-0.14	-1.43	-1.20	-1.26	-0.93	-2.00	-2.00	-1.81
2495131	0.14	0.58	-1.63	-1.49	-2.23	-1.58	-1.85	-1.14	-2.54	-1.14	-1.38	-0.58	-0.26	-1.14	-1.00
4049957	-1.14	-1.54	-3.56	-3.90	-4.34	-1.72	-3.05	-1.32	-3.63	-2.72	-2.70	-1.26	-3.10	-3.15	-3.04
1686585	-2.26	-2.10	-2.87	-2.41	-3.20	1.00	0.49	0.93	-2.07	-2.00	-2.96	-1.07	-1.81	-1.96	-1.14

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
2696735	-2.74	-2.56	-3.25	-3.09	-3.05	-2.56	-2.96	-2.58	-2.58	-2.81	-2.94	-2.04	-2.87	-3.35	-2.58
1720149	-0.85	-0.85	-1.72	-1.63	-1.89	-1.14	-1.63	-0.68	-2.51	-1.32	-2.35	-0.38	-1.58	-1.96	-1.63
1866751	-1.32	-2.10	-3.15	-2.81	-3.00	-1.85	-2.79	-2.32	-2.74	-2.00	-2.54	-1.32	-3.09	-3.05	-2.58
1851696	1.43	1.54	-1.20	-1.43	-1.85	-1.26	-1.68	-0.93	-2.07	-2.43	-2.38	-1.96	-1.77	-1.89	-1.20
93820	-3.28	-3.17	-2.54	-2.61	-2.43	0.68	-0.58	-0.49	-2.51	-2.87	-2.54	-2.26	2.07	0.38	2.98
2368282	-0.93	-0.93	-0.77	-0.93	-0.49	-1.07	-1.00	-1.14	-0.58	-0.38	-0.49	-0.68	-1.14	-1.14	-0.77
2831248	0.77	0.58	-0.85	-0.77	-1.00	0.38	0.38	0.26	0.26	0.26	0.00	0.38	-0.49	-0.58	-0.77
182802	-1.49	-1.20	-0.85	-1.07	-1.14	-1.14	-1.14	-0.77	-0.85	-1.38	-1.38	-1.49	-1.32	-1.49	-0.68
1003884	0.77	0.14	-1.77	-1.38	-2.00	1.00	0.38	0.93	-1.00	-0.38	-1.14	-0.26	-2.07	-2.00	-1.81
1120	0.00	0.14	-0.26	-0.14	-0.26	0.26	0.38	0.49	1.43	0.38	0.38	0.68	-0.77	-0.93	-0.68
1308542	-0.85	-0.68	-0.14	0.58	0.26	-0.77	-0.77	-1.14	0.68	-0.58	-0.38	-0.93	-0.77	-0.93	-0.58
3820761	-0.14	0.38	-2.23	-1.38	-2.98	-0.58	-0.58	0.00	-1.89	-3.39	-3.45	-3.12	-2.58	-2.91	-2.56
1999167	-0.26	0.00	0.58	1.26	0.38	0.93	0.26	1.38	-1.68	-0.38	-1.38	-0.58	-2.20	-2.23	-2.23
1522716	0.00	0.38	-2.74	-2.94	-3.28	-1.14	-1.38	-0.26	-1.81	0.14	-1.07	1.14	-1.81	-1.68	-1.32
1612969	-1.14	-1.20	-0.93	-0.77	-1.07	-0.93	-1.32	-0.58	1.20	-0.85	-1.14	-0.58	-0.49	-0.77	-0.77
337500	0.00	0.14	-0.49	0.00	0.14	0.38	0.26	0.68	1.72	0.77	-0.14	0.93	-0.49	-0.85	-0.68
1285380	0.00	0.14	-0.77	-0.77	-0.38	-0.49	-0.49	-0.38	-0.49	-0.14	0.00	0.38	-0.38	-0.49	-0.26
1636639	-0.14	-0.14	-0.85	-1.26	-1.00	-1.43	-1.38	-1.07	1.14	-0.77	-1.14	-0.58	-0.68	-0.77	-1.00
1985870	0.38	0.68	-0.68	-1.07	-0.58	-0.85	-1.26	-0.68	-0.85	1.14	0.49	1.54	-0.85	-0.68	-0.14
1677936	-5.60	-6.02	-5.46	-5.53	-5.44	-6.07	-6.43	-6.18	-5.26	-5.56	-5.26	-4.40	-6.37	-6.64	-5.63
910612	-5.26	-5.38	-5.80	-5.43	-5.10	-5.36	-5.55	-5.99	-5.03	-4.76	-5.30	-4.75	-5.48	-6.28	-5.02
2594407	-2.77	-3.89	-5.50	-4.83	-5.13	-5.07	-5.31	-5.01	-5.10	-4.97	-5.41	-4.45	-5.50	-5.77	-5.31
963536	-3.41	-3.49	-2.96	-3.43	-2.89	-3.72	-3.49	-3.51	-3.22	-3.04	-3.29	-3.09	-3.43	-3.68	-3.04
2252895	-2.07	-2.35	-1.58	-2.17	-1.85	-1.26	-1.54	-1.77	-1.63	-1.85	-1.63	-1.32	-2.00	-2.26	-1.20
2804190	-0.58	-0.14	-0.93	-1.14	-0.68	-0.93	-0.85	-0.68	-0.68	-0.38	-0.14	-0.26	-0.49	-1.00	-0.14
1998428	-0.49	-0.26	-2.51	-2.79	-2.00	-2.77	-2.58	-2.51	-1.81	-2.66	-2.51	-2.43	-3.50	-3.51	-2.93
1800114	0.38	-0.26	-1.58	-1.63	-1.72	0.26	-0.93	0.85	-2.04	-1.38	-1.14	-1.54	-2.14	-1.93	-1.93
1806769	1.14	1.54	-1.85	-1.72	-2.00	-1.93	-1.81	-1.96	-0.77	-2.56	-1.96	-2.29	-2.43	-2.98	-1.77
2474163	-1.43	-1.00	-1.14	0.49	-0.26	0.85	0.68	1.20	-1.07	-2.10	-2.04	-1.68	0.00	-0.49	0.26
1435374	0.93	0.14	1.32	1.20	-0.38	0.77	-0.58	0.85	0.93	-1.89	-2.35	-1.96	-3.50	-3.74	-2.56

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
434377	0.93	1.14	-1.00	-1.26	-1.20	-1.26	-1.26	-1.43	-1.72	0.00	0.14	1.81	-1.96	-2.07	-1.63
2121863	0.38	0.49	-1.77	-2.20	-1.72	-0.38	-0.85	-0.58	-2.14	-0.38	-1.07	-0.38	-2.26	-2.29	-1.63
1597231	-1.58	-1.26	0.93	2.04	1.32	-0.93	-1.43	-1.20	x	-1.77	-1.38	-1.00	-0.14	-0.26	0.14
4174437	-4.55	-3.55	-4.21	-4.49	-4.32	-4.77	-5.10	-4.79	-4.60	-3.84	-4.32	-2.54	-4.55	-4.84	-4.47
2182901	-4.47	-3.99	-4.10	-4.31	-3.96	-4.41	-4.90	-4.57	-4.35	-3.94	-4.48	-3.15	-4.46	-4.65	-4.08
1747979	-0.14	-0.14	-0.58	-0.68	-0.58	-0.49	-0.93	-0.26	-0.26	1.49	1.20	1.43	0.26	0.00	0.00
1630553	-0.58	0.14	-1.38	-1.68	-1.63	-1.20	-1.68	-0.68	-1.26	-1.85	-1.89	-1.20	-1.38	-1.49	-1.00
478960	-0.38	0.14	-1.00	-0.77	-0.68	0.49	0.14	0.85	0.85	-1.07	-0.77	-0.68	-1.26	-1.49	-0.77
2132487	-0.58	-0.68	-0.14	-0.26	-0.26	-0.93	-1.20	-1.07	0.58	-0.68	-0.38	-0.58	-0.77	-0.77	-0.26
2921152	-3.46	-3.00	-3.34	-3.32	-2.94	-3.79	-3.19	-3.61	-3.34	-3.64	-3.50	-3.52	-3.02	-3.55	-2.43
1846428	-1.96	-1.32	-1.38	-1.07	-1.14	-1.54	-1.89	-1.49	-1.43	-2.43	-2.14	-1.58	-2.10	-2.35	-2.04
2796143	0.85	0.85	-1.77	-1.85	-1.72	1.14	1.00	1.26	0.68	-0.49	-0.85	-0.14	0.14	-0.38	-0.26
1805613	-0.93	-0.85	-0.77	-0.93	-0.85	-1.14	-1.43	-1.43	-0.93	-1.07	-0.85	-0.38	-0.77	-1.38	-0.68
1431273	-2.43	-2.32	-2.79	-2.32	-2.00	-2.38	-2.35	-3.09	-1.72	-2.07	-2.14	-2.00	-2.35	-2.63	-1.68
1804662	-1.26	-1.14	0.49	1.32	0.38	0.26	-0.26	0.38	-0.77	-0.85	-1.14	-1.14	-1.07	-1.20	-0.77
2921194	0.14	0.68	-2.35	-2.41	-2.26	-0.58	-0.85	-0.58	-1.85	-1.20	-1.49	-0.68	-1.81	-2.14	-1.68
395368	-1.54	-2.04	-2.41	-2.56	-2.20	0.00	-0.49	-0.26	-2.26	-1.96	-1.85	-0.93	-2.96	-3.09	-2.10
2182861	-0.77	-0.58	-0.68	-0.26	-2.20	-0.58	-0.49	-0.26	-0.26	-0.49	-0.58	-0.14	-0.58	-0.85	-0.49
1806436	-1.43	-1.58	0.26	0.38	0.00	0.14	0.00	0.77	x	-0.93	-0.58	-0.68	-0.85	-0.49	-0.26
2922143	-2.89	-2.91	-2.46	-2.58	-2.51	-3.32	-2.79	-3.12	-2.89	-2.58	-2.91	-2.91	-2.94	-2.72	-1.26
1696001	-1.43	-1.32	-0.58	-0.85	0.14	0.00	-0.49	0.14	-0.38	-1.07	-0.77	-0.93	-1.00	-1.26	-0.85
1635004	-3.10	-2.83	-1.20	-1.63	-2.14	-3.17	-3.46	-3.17	-1.68	-2.77	-0.26	-2.63	-3.14	-3.19	-2.41
2132752	-1.38	-2.32	-2.26	-2.58	-2.32	-1.58	-1.89	-2.00	-1.89	-1.89	-2.35	-1.38	-3.02	-3.09	-1.38
1734393	-3.26	-3.28	-2.81	-3.23	-2.56	-3.71	-3.05	-3.35	-2.07	-3.68	-2.41	-2.91	-3.29	-2.20	-3.09
4179338	-4.94	-4.93	2.20	3.09	2.49	-5.26	-4.60	-4.98	-4.79	-4.93	-5.09	-4.34	-4.63	-5.15	-4.27
1427623	-2.68	-2.49	1.20	2.04	1.26	-1.32	-1.63	-1.20	x	-2.49	-1.63	-2.38	-2.35	-2.56	-1.58
3320987	-2.26	-2.77	-1.63	-1.14	-1.49	1.32	0.38	1.89	-2.89	-1.93	-2.07	-0.49	-3.35	-3.87	-2.56
2239819	-2.20	-2.51	-2.00	-2.04	-1.81	1.72	2.00	1.14	1.07	-2.56	-1.72	-1.96	-2.43	-2.63	-1.77
876720	3.00	3.09	-0.49	-1.07	-0.49	-0.93	-1.00	-0.85	-0.85	-0.49	-0.26	-0.49	-1.00	-1.07	-0.68
1910091	2.20	1.72	-0.58	-1.00	-0.85	-0.58	-0.85	-0.58	-0.49	-0.77	-0.77	-0.38	0.68	0.77	0.38

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
2174130	1.81	1.85	-0.38	-0.38	-0.85	-0.26	-0.26	-0.26	-0.49	0.49	0.49	0.77	-0.93	-0.68	-0.14
2219077	2.83	1.81	0.00	-0.26	-0.38	-0.26	-0.68	-0.26	-0.49	0.00	-0.14	-0.49	-0.49	-0.85	-0.68
1965041	2.32	2.20	-0.58	-0.49	-0.93	1.38	0.93	0.77	-0.49	0.68	0.26	1.49	-0.58	-0.77	-0.49
1649959	2.49	2.26	-0.77	-0.77	-1.07	0.00	0.00	0.49	-0.93	-2.04	-2.04	-1.38	-1.72	-2.29	-1.54
1222317	2.10	2.10	-1.58	-1.77	-1.14	-0.26	-0.38	-0.26	-1.00	0.38	0.58	0.58	-1.38	-1.96	-0.26
2510171	3.14	2.72	-0.26	0.38	-0.77	-1.14	-1.32	1.00	-0.85	-1.77	-1.32	-1.68	-1.26	-1.63	-1.26
1988674	2.96	1.96	-0.77	-1.32	-1.00	-1.32	-0.93	-1.43	-1.07	-0.14	0.38	-0.68	-1.26	-0.68	-0.49
1672640	1.49	1.54	-1.54	-1.77	-1.77	-1.38	-1.81	-0.85	-1.26	0.58	0.14	0.68	-1.38	-1.07	-0.68
1749417	2.17	1.58	-1.07	-0.26	-0.77	1.77	1.14	2.32	-1.38	-0.77	-1.07	-0.77	-1.00	-1.00	-1.63
1926543	-0.68	-0.26	1.96	2.23	2.14	1.07	1.26	0.49	-0.26	0.00	-0.58	-0.38	-0.26	-0.68	0.00
1504934	-2.85	-2.38	3.09	3.82	3.07	-1.38	-0.93	-1.58	-1.96	-2.14	-2.07	-2.32	-2.32	-2.98	-1.96
2512879	0.38	0.38	2.81	3.02	3.17	-0.93	-1.85	-1.32	-2.29	-1.20	-1.68	-0.68	-3.02	-3.55	-2.72
1359832	0.38	0.38	2.49	3.31	2.96	-1.26	-2.23	-0.93	-2.94	-2.41	-2.51	-1.38	-5.09	-5.09	-4.04
1583076	0.38	0.26	2.68	3.20	3.07	-1.07	-1.89	-1.07	-2.20	-1.72	-1.96	-0.77	-3.32	-3.42	-2.68
139838	-2.87	-2.72	3.34	3.71	3.89	-2.89	-2.63	-2.79	-2.54	-2.85	-2.17	-2.54	-2.79	-3.15	-2.35
1344654	-1.20	-0.77	3.38	3.17	3.12	1.20	1.07	0.49	-1.00	-1.20	-0.93	-1.07	-1.32	-2.07	-1.14
2513979	-3.35	-2.85	3.52	3.91	3.95	-3.45	-2.68	-3.36	-3.25	-3.66	-2.79	-3.28	-3.04	-3.70	-3.34
2369312	-1.58	-0.58	4.09	3.64	4.10	-3.94	-4.03	-3.36	-3.61	-0.58	-1.96	0.14	-3.12	-3.04	-1.54
2048364	-3.71	-1.89	3.46	3.99	3.68	-3.38	-3.73	-2.96	-3.34	-3.79	-3.34	-3.63	-2.46	-2.58	-1.58
85246	-4.22	-4.47	3.20	4.17	3.19	-3.72	-3.82	-4.29	-4.04	-4.87	-3.97	-4.49	-4.43	-5.34	-4.43
166337	-1.32	-2.07	3.26	3.93	3.38	-2.07	-2.10	-2.29	-1.20	-1.43	-1.20	-1.00	-2.38	-2.29	-1.68
138274	-1.00	-0.58	2.63	3.09	2.23	-1.20	-1.14	-1.07	-0.68	-0.93	-0.68	-0.26	-0.85	-0.77	-0.58
1633340	-2.07	-1.89	2.83	3.38	2.94	-1.89	-1.54	-1.96	-1.43	-1.63	-1.32	-1.58	-1.43	-2.00	-1.32
1982416	-0.93	-1.20	3.29	3.39	2.51	-1.32	-0.77	-1.32	-0.68	-0.14	-0.38	0.00	-0.85	-0.93	-0.26
946822	-0.68	-0.49	1.14	1.63	1.26	-0.49	-0.49	-0.14	-0.49	-0.85	-0.49	-0.58	-0.58	-0.58	-0.68
2517330	-0.26	-0.38	2.14	1.89	1.32	-0.38	-0.38	-0.49	0.14	-0.26	-0.14	-0.14	0.00	0.14	0.00
2516489	-0.85	-1.00	2.79	3.00	2.72	0.14	0.38	0.68	-0.68	-1.07	-0.77	-1.20	-0.93	-0.93	-1.00
88741	-1.93	-1.49	3.92	3.69	2.56	-2.07	-1.93	-1.93	-1.32	-2.26	-1.00	-2.04	-1.58	-2.10	-1.43
168865	-2.26	-2.23	3.07	3.57	3.49	-2.23	-2.17	-2.63	-1.96	-1.68	-1.81	-2.10	-2.35	-2.58	-1.38
231779	-0.77	-0.93	2.00	2.23	1.81	-0.68	-0.49	-0.77	-1.00	-0.38	-0.14	-0.26	-1.07	-0.85	-0.68

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
234123	-1.20	-0.93	1.81	1.32	1.38	1.26	1.32	0.85	0.00	-1.00	-0.85	-1.43	-0.85	-1.00	-0.49
1833801	-0.14	-0.58	2.17	2.70	2.68	1.32	1.14	1.14	x	-0.77	-0.68	-0.26	-0.26	-0.49	-0.26
1923613	0.00	-0.26	2.83	2.51	3.32	1.14	1.81	0.58	-0.93	-0.93	-0.77	-0.93	-0.49	-0.77	-0.38
2058620	-0.77	-0.77	1.32	1.85	1.81	1.07	1.32	1.07	-0.85	-0.85	-1.14	-0.38	-1.00	-1.20	-1.00
1930954	-0.49	-0.38	3.07	2.66	1.81	0.93	1.07	0.49	x	-0.49	-0.77	-0.85	-1.26	-1.32	-0.58
1511658	-4.58	-5.14	3.62	4.31	2.70	-5.11	-5.15	-2.04	-4.02	-4.79	-4.59	-4.25	-5.39	-5.07	-4.34
2590673	-1.32	-0.85	3.39	3.25	3.31	-0.49	-1.14	0.00	-0.85	-1.85	-1.26	-1.72	-1.49	-1.93	-1.20
1995380	0.49	0.93	1.58	2.41	2.00	0.85	-0.14	1.14	-0.68	-2.04	-2.23	-2.17	-0.68	-1.38	-0.85
167409	-4.55	-4.54	2.89	4.34	3.19	-3.89	-4.58	-3.98	-1.72	-4.36	-3.47	-3.55	-4.60	-4.62	-3.95
1846226	-0.68	-0.26	1.32	1.49	1.85	0.68	0.93	0.85	-1.07	-0.85	-1.26	-0.58	0.68	0.26	0.38
2052185	-3.20	-3.19	3.42	4.54	2.89	-3.89	-4.04	-3.61	-3.00	-3.81	-3.26	-3.09	-3.80	-3.91	-3.36
2517389	-2.14	-1.81	3.66	3.20	3.32	-1.07	-0.85	-1.43	-1.38	-1.43	-1.89	-1.32	-1.63	-2.20	-1.32
911015	-1.20	-1.14	3.23	3.14	2.49	1.43	1.00	1.20	-0.68	-1.20	-0.49	-0.93	-1.58	-1.26	-1.07
604856	0.00	-1.14	3.22	3.36	0.00	-1.54	-1.93	-0.58	-1.20	-0.93	-1.49	-0.58	-1.63	-2.32	-1.93
1448718	-2.66	-2.56	4.84	3.64	-1.43	-2.79	-2.20	-2.35	-1.68	-2.51	-1.68	-1.93	-2.68	-2.17	-2.23
2517268	-2.41	-2.07	3.12	4.10	3.04	-2.41	-2.10	-2.43	-1.77	-1.77	-1.81	-1.54	-2.26	-2.20	-1.38
167134	-2.00	-2.38	3.28	3.63	3.63	-2.17	-2.35	-2.20	-1.63	-1.26	-1.77	-1.96	-2.32	-1.93	-0.85
2843638	0.68	0.49	3.10	2.63	2.23	-0.58	-0.38	-0.49	-0.26	-0.14	0.00	-0.58	-0.26	-0.14	-0.26
1813269	-0.49	0.26	3.60	3.77	3.31	-2.74	-3.49	-3.46	-2.61	-1.07	-2.20	0.14	-3.34	-4.07	-2.66
1861971	-4.26	-3.64	3.26	4.32	3.09	-5.41	-5.44	-4.95	-4.96	-4.89	-4.64	-4.91	-5.12	-5.58	-4.47
2005973	-0.68	-1.20	2.43	3.61	2.54	-0.26	-0.68	-1.00	-1.00	-1.07	-1.20	-1.43	-1.43	-1.81	-0.77
2515729	-2.89	-2.83	3.46	3.87	3.88	-1.14	-2.17	-0.58	-1.81	-2.85	-2.98	-2.94	-1.68	-2.63	-2.17
2132356	-1.07	-0.85	2.98	3.32	2.74	0.77	0.00	0.58	x	-1.07	-0.85	-0.85	-0.85	-1.38	-0.68
1001726	-0.14	-0.58	2.54	2.77	2.83	1.38	0.93	1.00	x	-1.38	-1.07	-0.77	-0.14	-0.38	-0.38
2631845	-1.07	-1.49	2.70	4.40	-0.49	-2.07	-2.23	-1.93	-2.51	-2.46	-2.29	-2.51	-3.00	-3.32	-2.51
86390	-1.20	-1.43	3.04	4.00	2.51	-1.54	-1.89	-1.63	-1.14	-0.85	-1.07	-0.49	-1.93	-2.04	-1.00
1287840	-0.68	-0.77	1.54	1.07	1.93	0.38	0.49	0.58	-0.58	-1.00	-0.93	-0.58	-0.68	-0.68	-0.77
2516905	-0.77	-0.93	2.46	3.55	2.63	-1.07	-0.85	-1.07	-0.26	-0.49	-0.49	-0.49	-0.38	-0.58	-0.14
606122	-1.49	-1.32	3.23	3.02	1.49	-1.49	-1.00	-1.72	-1.00	-1.38	-0.77	-1.49	-1.00	-1.38	-1.43
3553733	-0.93	-0.77	2.23	3.87	1.38	-0.68	-1.14	0.00	-1.00	-0.85	-1.38	-0.85	-0.93	-1.07	-0.58

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
1813381	-2.72	-2.58	3.52	4.06	3.70	-2.41	-2.54	-2.58	-1.81	-2.61	-2.20	-2.00	-2.85	-3.20	-2.32
1988108	-0.26	-0.26	2.17	2.29	2.10	0.49	0.14	0.26	1.07	-0.49	-0.85	-0.26	-1.85	-1.81	-1.00
1644648	-2.35	-1.32	1.38	2.07	2.35	1.32	0.93	1.07	-0.14	-1.96	-2.41	-1.77	-2.10	-2.38	-1.68
2516104	-3.79	-3.77	2.89	3.12	3.31	-3.91	-3.63	-3.45	-3.15	-3.45	-3.60	-3.28	-3.77	-3.91	-3.31
2516448	-1.93	-1.77	3.39	2.51	3.23	-1.93	-1.77	-1.68	-1.14	-1.32	-1.77	-1.14	-1.43	-1.81	-1.68
2514507	-3.67	-3.46	3.52	3.47	3.78	-3.23	-2.96	-4.01	-2.81	-3.20	-3.07	-2.94	-3.15	-3.86	-3.26
1427470	-0.93	-0.85	2.00	2.61	1.96	-1.54	-1.49	-1.72	0.38	-0.85	-0.77	-0.85	-1.20	-1.43	-0.68
1311471	-2.26	-2.61	3.90	3.84	4.10	-2.26	-2.10	-2.23	-1.38	-1.89	-2.20	-1.72	-2.43	-2.38	-1.77
195142	-2.58	-2.79	3.26	3.88	3.47	-2.41	-2.54	-2.46	-2.14	-2.98	-2.54	-2.26	-2.91	-2.58	-2.43
29598	-3.60	-3.34	2.81	3.82	2.94	-2.54	-2.54	-3.12	-3.14	-3.73	-3.19	-2.79	-4.31	-4.56	-3.72
1968576	0.26	0.14	1.96	2.63	1.54	0.93	1.32	0.58	-1.07	-1.20	-1.26	-0.77	-2.00	-2.17	-1.32
2959255	-1.26	-0.85	1.26	1.85	1.72	-0.58	-0.26	-0.26	-1.85	0.38	-0.14	1.07	-1.07	-1.38	-0.85
446969	-1.00	-0.26	3.07	3.74	2.70	-0.58	-1.89	0.49	-2.17	-1.96	-2.70	-1.43	-2.85	-3.32	-1.89
1631511	-1.49	-1.00	1.49	2.32	2.07	1.07	1.49	0.58	-1.85	-1.93	-1.72	-1.68	-2.61	-2.93	-2.29
1508741	-0.38	0.14	3.12	4.13	3.19	-3.00	-2.94	-2.66	-1.54	-2.91	-2.04	-2.66	-2.66	-3.10	-2.10
2513602	-2.51	-2.56	2.04	3.17	3.23	2.35	1.77	1.77	-1.81	-1.96	-1.89	-1.77	-2.10	-2.70	-1.38
1981145	-1.49	-1.63	1.85	2.77	2.58	1.63	2.20	1.26	-1.63	-2.10	-2.04	-2.20	-1.54	-2.00	-1.93
2103752	0.58	0.93	1.72	2.26	1.32	1.58	1.43	1.32	0.26	-1.00	-1.49	-1.07	-1.63	-2.07	-1.68
2658782	-2.72	-2.04	1.77	3.66	1.68	1.72	0.68	1.81	x	-2.85	-2.20	-2.87	-1.93	-2.46	-1.93
2099420	-1.43	-1.38	2.51	1.72	2.72	2.49	1.63	2.07	-0.93	-1.72	-1.38	-1.77	-1.14	-1.54	-0.85
637639	-2.54	-2.68	2.38	3.39	2.63	1.58	1.43	1.07	-2.17	-1.85	-0.77	-2.35	-2.38	-2.26	-1.58
279249	-3.78	-3.73	2.49	3.14	2.79	1.85	2.04	1.58	-3.15	-2.81	-2.32	-3.41	-3.15	-3.69	-2.63
1379063	-1.54	-1.26	2.96	3.02	2.10	1.93	1.54	1.58	-0.93	-1.63	-1.38	-1.14	-2.07	-2.17	-1.20
89747	-3.28	-3.43	2.83	3.69	2.98	1.63	1.38	1.32	-1.89	-3.19	-2.81	-2.56	-3.19	-2.66	-2.41
2515873	-1.96	-1.68	2.51	3.29	2.79	1.32	0.77	1.54	-2.07	-2.32	-2.41	-1.43	-1.00	-1.49	-1.20
1432372	0.38	1.07	1.26	2.14	1.89	1.68	1.20	1.68	-1.00	-1.14	-0.68	-0.85	-1.63	-1.54	-1.20
1633719	-3.46	-3.52	2.38	2.49	3.00	1.77	1.85	1.49	-1.89	-3.70	-2.98	-2.63	-3.77	-3.47	-2.96
1712663	-1.20	-0.68	3.34	3.49	2.41	-1.49	-1.38	-1.07	1.32	-1.43	-1.07	-1.38	-1.72	-1.49	-0.85
4285203	-1.26	-1.20	2.81	3.72	2.00	-1.43	-1.49	-1.20	1.49	-1.38	-1.58	-0.85	-1.32	-1.81	-1.00
1634342	-0.49	0.26	0.68	0.93	0.93	1.58	1.58	1.93	-0.38	-0.85	-1.07	-0.68	-0.58	-1.14	-0.85

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
1418871	-1.00	-1.14	-0.93	-0.85	-0.49	2.81	2.77	2.61	-0.85	-1.32	-1.14	-1.20	-1.07	-1.38	-0.85
3766382	-0.85	-1.00	-0.77	-1.20	-1.20	1.89	1.43	1.49	-0.77	-0.49	0.00	-1.07	-1.49	-1.14	-0.68
943181	-1.72	-1.63	-1.26	-1.68	-1.32	2.85	3.07	1.89	-1.00	-1.38	-0.77	-1.43	-1.38	-1.32	-1.00
603761	-2.00	-1.54	-1.81	-1.93	-1.20	3.12	1.32	3.63	x	-1.85	-1.32	-1.26	-1.14	-1.14	0.00
1297562	0.68	0.77	-2.26	-2.56	-2.26	1.63	2.07	1.32	0.49	-0.58	-1.81	-1.81	-1.00	-0.68	-0.49
2910715	0.58	0.26	-1.00	-0.93	-0.77	2.54	1.32	2.81	0.49	-0.68	-0.77	-0.49	-1.43	-1.77	-1.14
196975	-0.68	-0.85	0.49	0.85	0.49	1.89	1.32	1.85	x	-0.38	-0.49	0.00	-0.26	-0.26	-0.38
1453049	1.32	1.58	-0.77	-0.93	-1.07	2.17	1.93	2.26	x.	-1.43	-1.07	-0.93	-1.77	-1.77	-1.00
1968695	-0.26	-0.49	-1.32	-1.00	-0.85	1.63	1.07	1.89	-1.20	-0.38	-0.14	0.00	-1.14	-1.07	-1.00
958344	-4.09	-3.74	-3.89	-3.54	-3.39	3.02	3.12	2.94	-2.10	-3.60	-3.64	-3.81	-4.03	-4.22	-2.93
2820985	-2.91	-2.29	-0.68	0.14	-0.38	2.43	1.77	2.70	-1.58	-2.54	-1.68	-2.14	-1.96	-3.05	-1.58
1633393	-0.38	-0.49	-1.49	-1.14	-1.26	1.49	1.49	1.54	-0.14	-1.54	-1.54	-1.63	0.49	0.00	-0.26
1806451	-1.58	-1.14	-1.49	-1.00	-1.14	2.49	2.68	1.68	-1.00	-1.43	-1.07	-0.93	-1.38	-1.85	-0.77
2674772	-2.93	-2.96	-0.26	0.14	0.14	3.17	2.17	2.94	-1.63	-2.94	-2.38	-2.20	-3.26	-3.23	-2.23
1376121	1.20	1.58	-1.20	-1.07	-0.68	1.63	1.63	1.93	-0.85	-0.85	-0.68	-0.58	-1.20	-0.58	-0.85
831794	-1.72	-1.26	0.58	1.54	0.93	2.23	1.58	2.04	-2.17	-1.63	-1.54	-1.93	-0.58	-0.68	-0.49
1427681	-2.04	-2.20	1.77	2.17	2.70	2.72	2.43	2.54	-1.85	-2.17	-1.63	-1.58	-2.35	-2.43	-1.85
2912830	-3.32	-3.56	0.14	-0.14	-0.85	3.20	2.87	2.54	0.58	-2.98	-3.15	-2.89	-3.77	-3.79	-2.68
504786	-2.35	-1.85	-2.43	-2.98	-2.49	2.51	2.38	2.32	-2.23	-1.81	-2.04	-1.38	1.63	1.20	0.58
254081	-5.47	-5.31	-4.95	-5.03	-5.13	-4.78	-4.73	-5.17	4.21	-4.70	-5.38	-5.43	-5.35	-5.44	-4.66
1330674	-5.03	-5.22	-4.34	-4.84	-4.91	-4.36	-5.42	-5.00	4.39	-4.39	-4.52	-4.81	-5.07	-5.31	-3.91
2377834	-6.27	-6.31	-5.95	-5.86	-5.77	-6.48	-6.63	-6.55	4.69	-6.10	-6.11	-5.81	-6.64	-6.60	-5.98
2075464	-4.57	-4.94	-4.38	-4.83	-3.97	-5.08	-4.77	-4.82	4.28	-4.75	-4.23	-4.38	-5.01	-4.77	-4.55
2383235	-5.07	-5.35	-4.99	-4.95	-4.97	-5.48	-5.85	-5.69	4.59	-4.95	-5.43	-4.91	-5.73	-5.77	-5.00
1285503	-0.85	-0.85	-1.49	-1.81	-1.68	-2.14	-2.38	-1.49	2.43	-2.46	-1.38	-1.54	-2.07	-2.29	-1.85
2383205	-5.14	-5.34	-4.54	-4.85	-4.73	-5.55	-5.63	-5.53	4.66	-5.37	-5.28	-4.89	-5.67	-5.63	-5.01
2015871	-5.38	-5.30	-5.41	-5.03	-4.74	-5.25	-5.17	-5.35	2.66	-4.97	-4.95	-4.73	-4.88	-5.64	-4.84
2374046	-0.68	-0.77	-0.49	-1.20	-0.49	-0.58	-0.58	-0.58	3.55	-1.07	-0.49	-1.20	-0.38	-0.68	-0.49
1709828	1.14	0.38	-0.49	-0.49	-0.38	1.20	0.93	0.93	2.26	-0.26	-0.93	-0.14	-0.26	-0.38	0.00
2061119	-0.38	-0.58	-0.77	-0.68	-0.85	0.14	0.14	0.14	1.93	0.00	-0.26	0.00	-0.14	-0.38	-1.20

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
3665105	-2.94	-3.04	-2.83	-3.14	-3.04	-1.49	-1.72	-1.49	4.26	-2.94	-2.83	-2.89	-2.81	-3.46	-2.29
2068983	-3.04	-3.39	-3.23	-3.09	-3.05	-3.45	-3.41	-3.39	4.96	-3.46	-2.85	-2.68	-3.35	-3.35	-3.32
2242648	-3.57	-3.68	-3.39	-3.69	-3.50	-3.67	-4.55	-3.45	3.87	-3.73	-3.69	-3.69	-3.80	-3.89	-3.20
885032	-3.47	-3.17	-3.38	-3.14	-2.77	-3.45	-2.89	-3.28	3.85	-2.17	-2.35	-2.94	-2.61	-3.20	-2.04
2383830	-4.65	-5.12	-5.48	-5.45	-5.13	-5.76	-5.69	-5.91	4.54	-5.76	-5.39	-5.03	-6.48	-6.49	-5.74
2085191	-6.64	-6.64	-6.35	-6.41	-6.23	-6.64	-6.64	-6.64	4.35	-6.64	-6.64	-6.60	-6.64	-6.64	-6.42
2792982	-6.20	-6.20	-6.03	-5.79	-5.51	-6.15	-6.08	-6.16	4.48	-5.95	-5.86	-5.76	-5.53	-6.12	-5.82
179929	-1.20	-1.26	-0.77	0.26	-0.93	0.58	-0.26	0.58	2.20	-2.07	-2.07	-1.07	-2.35	-2.54	-2.04
2741788	-1.68	-1.43	-1.43	-1.20	-1.49	-1.38	-1.58	-1.00	2.83	-0.14	-0.14	0.00	-1.26	-1.07	-1.32
2373608	-4.11	-4.46	-3.46	-4.36	-3.60	-4.09	-3.79	-3.92	4.07	-4.22	-3.99	-3.49	-4.10	-3.91	-3.78
2182095	-4.31	-4.14	-4.32	-4.07	-3.79	-4.14	-4.08	-4.40	4.19	-3.51	-3.64	-3.68	-3.86	-4.50	-3.46
2923150	-6.52	-6.64	-6.21	-6.32	-6.20	-6.56	-6.64	-4.96	5.07	-6.46	-6.64	-6.19	-6.64	-6.64	-6.55
293495	-0.93	-1.49	2.56	3.78	1.38	-2.38	-2.91	-0.58	3.47	-1.63	-2.54	-2.72	-2.32	-2.98	0.14
4284270	-1.14	-1.26	2.68	3.79	1.81	-1.63	-1.20	-1.38	3.15	-1.72	-1.49	-1.20	-1.26	-1.58	-0.93
958923	-1.26	-1.32	-0.26	-1.07	-0.49	1.89	1.72	1.85	2.41	-1.32	-0.49	-0.85	0.77	0.68	-0.38
1921393	-3.00	-2.14	-2.91	-2.93	-2.29	2.20	1.20	2.54	3.19	-1.38	-2.49	-1.85	-2.87	-3.25	-2.41
1447866	-0.26	0.26	-0.26	-0.58	0.00	-0.38	-0.26	-0.26	-0.58	2.00	2.07	1.93	-1.07	-1.00	-0.26
1666737	1.14	0.93	-0.38	-0.77	-0.26	-0.14	-0.49	0.14	-0.49	2.54	2.17	2.61	-1.49	-1.58	-0.14
586245	-1.07	-0.26	-0.77	0.49	-0.58	-0.77	-0.49	-0.68	-1.89	2.72	1.07	2.70	-2.89	-3.02	-2.00
194162	-1.58	-1.54	-1.54	-1.54	-1.43	-1.54	-2.43	-1.43	-2.07	2.20	2.63	2.46	-2.43	-2.89	-1.93
243123	-1.72	-2.00	-1.32	-1.49	-1.58	-1.77	-2.14	-1.93	-0.49	-1.89	-1.77	-1.14	2.91	2.58	1.72
382416	-2.10	-2.23	-2.68	-2.49	-1.54	-3.34	-3.02	-2.58	-2.17	-2.04	-2.17	-2.35	1.68	0.58	3.52
1852659	-1.68	-1.32	-1.77	-2.38	-1.77	-2.43	-2.10	-2.20	-1.49	-2.17	-1.81	-1.81	3.09	2.91	1.38
3220181	-1.07	-0.85	-0.49	0.14	-0.49	-0.49	-0.77	0.14	-0.14	-0.85	-0.93	-0.26	1.72	1.26	1.49
1726307	-0.77	-0.26	-1.32	-1.49	-1.07	-1.38	-1.26	-1.07	-1.32	-0.93	-0.68	-0.68	2.17	1.93	1.54
1904244	-0.85	-0.38	0.00	0.00	0.26	-0.68	-0.14	-0.14	0.14	-0.85	-0.14	-0.26	2.23	2.04	1.43
2039955	-1.20	-1.54	-1.32	-0.68	-0.77	-1.38	-0.93	-1.20	-1.07	-1.20	-1.32	-0.58	2.58	2.63	1.96
2675641	-1.68	-1.43	-1.68	-1.54	-1.20	-0.85	-0.68	-0.77	-1.20	-0.14	-1.00	0.26	2.10	1.93	1.20
1412749	-1.00	-1.00	-0.85	-1.00	-0.49	-1.14	-0.77	-1.26	-0.26	-0.77	-0.38	-1.00	2.43	2.46	2.04
1963854	-0.85	-0.93	-1.20	-1.07	-0.77	0.14	0.26	0.77	-1.00	-0.14	-0.26	-0.38	2.00	1.63	1.00

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
2949085	-0.26	-0.14	-1.07	-0.93	-1.20	-0.49	-0.77	-0.49	-0.68	-0.14	-0.38	0.00	2.17	1.68	1.07
2963196	-2.17	-2.00	-2.23	-2.29	-2.26	-2.38	-2.81	-2.10	-2.43	-2.00	-2.32	-1.77	2.35	1.26	2.56
1505977	-1.77	-1.72	-1.26	-1.26	-1.49	-2.17	-2.26	-2.14	-1.49	-2.43	-1.49	-1.89	3.19	2.38	1.58
1674985	-0.77	-0.49	-0.49	-1.00	-0.68	-0.26	-0.26	-0.38	-0.49	-0.58	-0.49	-0.49	1.85	1.89	1.20
2109054	-1.14	-0.58	-0.68	-0.58	-1.14	-0.14	-0.58	-0.26	-0.77	-1.32	-1.07	-0.77	2.35	1.81	1.38
3317039	-1.14	-1.00	-1.07	-1.00	-0.93	0.58	0.14	0.93	-0.68	-1.14	-1.26	-0.85	2.10	2.10	1.68
2838551	-0.93	-0.68	-0.77	-1.00	-0.58	-0.38	-0.38	-0.58	-0.14	-0.85	-0.58	-0.77	1.63	1.63	0.77
1477568	-1.26	-1.26	-2.20	-2.14	-2.32	-0.77	-1.43	-0.77	-1.93	-1.20	-1.77	-0.77	2.14	1.26	2.77
2963871	-0.26	-0.26	-1.32	-1.58	-1.38	-0.77	-0.93	-0.68	-0.77	-0.85	-0.68	-0.58	1.32	1.54	1.72
1740547	-0.77	-1.07	-1.26	-1.38	-1.26	-1.32	-1.20	-1.43	-1.14	-0.77	-0.38	-0.14	2.61	2.41	2.46
2292011	-2.00	-2.41	-1.81	-2.04	-2.04	-2.29	-2.72	-2.10	-2.38	-1.96	-2.51	-2.17	3.29	3.02	0.00
1349484	-0.26	-0.14	-0.26	-0.38	-0.49	-0.49	-0.77	-0.58	x	0.00	-0.14	0.00	1.93	1.85	1.32
1674253	1.00	0.68	-1.00	-1.07	-0.93	0.14	0.58	0.00	-0.85	-0.49	-0.68	-0.26	1.77	1.49	0.85
1932189	-2.38	-2.00	-2.70	-2.46	-2.43	-2.56	-2.38	-2.35	-2.04	-1.26	-2.29	-1.26	3.25	2.61	0.85
1403041	-1.81	-1.58	-1.68	-1.38	-1.14	-1.49	-1.43	-1.43	-1.14	-1.72	-1.20	-0.85	2.96	2.26	1.00
1486358	-1.72	-1.26	-2.70	-2.29	-2.23	-1.63	-1.89	-1.20	-2.56	-2.14	-2.54	-2.29	2.14	1.89	0.85
1439065	-0.14	-0.14	0.38	-0.58	0.14	-0.49	-0.49	-0.49	x	-0.14	0.38	0.00	1.85	1.54	1.77
530629	-0.85	-1.14	-0.58	-1.00	-0.58	-1.32	-1.00	-1.00	x	-0.93	-0.38	-0.38	2.83	2.43	1.68
1672676	-1.72	-1.63	-2.10	-2.26	-2.10	-2.00	-2.17	-1.58	-1.89	-1.54	-1.68	-1.32	2.89	2.58	1.68
1989129	-1.00	-1.07	-1.81	-1.68	-1.81	-0.14	-1.14	-0.14	-1.58	-1.20	-1.77	-0.58	2.29	1.89	2.91
1486348	-2.46	-2.38	-2.43	-2.38	-2.41	-2.54	-2.51	-2.81	-1.68	-1.72	-1.68	-1.63	2.38	2.68	1.63
1397294	-0.49	-0.49	-1.38	-1.14	-1.07	-1.32	-1.77	-1.20	-1.32	0.26	-0.93	0.58	2.70	2.26	1.68
2844322	-1.77	-1.26	-2.00	-2.04	-2.14	-2.23	-2.58	-2.17	-1.93	-2.17	-2.00	-1.20	2.85	2.46	2.07
1481440	-1.14	-1.32	-1.07	-1.38	-0.85	-1.49	-1.43	-1.26	-1.00	-1.26	-0.49	-0.68	2.38	2.43	1.63
26459	-1.00	-1.00	-0.85	-0.85	-1.14	-1.20	-1.20	-0.93	-1.14	-0.77	-0.93	-0.85	2.17	2.23	0.68
1406786	-0.68	-0.58	-0.93	-1.38	-1.38	-1.26	-1.00	-0.85	-1.49	-1.14	-0.49	-1.14	2.07	1.72	0.93
1485846	-5.50	-5.53	-5.15	-5.17	-4.72	-5.57	-5.68	-5.44	-5.02	-5.42	-5.00	-4.87	3.02	2.54	2.23
2153242	-1.54	-1.68	-1.58	-1.72	-1.54	-2.14	-1.72	-2.00	-1.43	-1.81	-1.14	-0.77	2.89	2.51	1.14
2157981	-1.93	-1.85	-1.93	-1.81	-1.49	-0.38	-0.49	-0.26	-1.07	-2.38	-1.49	-1.43	3.09	2.32	0.85
3244361	-1.20	-1.07	0.68	1.38	0.85	-0.85	-1.26	-1.20	-0.58	-1.32	-1.07	-0.77	2.14	1.93	1.07

Table 3

Clone ID	Lung (2881)	Lung (2152)	Liver (4209)	Liver (4133)	Liver (2147)	Kidney (6993)	Kidney (6994)	Kidney (6995)	Pancreas (6996)	Spleen (6997)	Spleen (6998)	Spleen (6998)	Brain (6999)	Brain (7000)	Striatum (3971)
1986737	-1.43	-1.26	-2.26	-1.63	-1.96	-1.07	-0.68	-0.93	-1.77	-0.85	-1.43	0.00	2.32	2.14	0.85
2506867	-2.93	-2.61	-2.85	-2.98	-3.23	-1.20	-1.07	-0.49	-2.49	-3.15	-3.05	-2.77	3.32	2.51	1.49
1211682	-1.81	-1.96	-1.07	-1.54	-1.26	-1.89	-2.35	-2.23	-2.46	-1.26	-1.85	-1.14	2.79	2.41	1.58
1416354	-0.93	-0.85	-1.38	-1.14	-1.26	-1.58	-1.32	-1.38	-1.26	-0.77	-0.49	-0.68	1.96	1.49	1.07
2963962	-1.26	-1.26	-1.07	-1.58	-1.00	-1.68	-1.77	-1.58	-1.07	-1.20	-1.14	-1.20	1.43	0.85	1.49
1761086	-1.93	-1.93	-1.58	-2.14	-1.72	-1.20	-1.38	-1.38	-1.81	-2.04	-1.81	-1.96	1.54	1.20	0.26
2588552	1.68	1.72	-0.77	-1.38	-1.00	-1.43	-1.26	-1.07	-0.58	-1.96	-0.93	-0.68	2.72	1.85	2.46
1901271	-0.85	-0.38	2.04	1.14	0.38	-0.14	0.38	0.00	-1.20	-0.38	0.14	0.14	1.63	1.49	1.07
1740924	-1.00	-0.93	1.43	1.14	1.38	-1.14	-0.85	-1.49	-0.58	-0.49	-0.68	-0.68	1.89	1.96	0.77
1480159	-1.54	-1.58	-1.26	-1.32	-1.26	-0.49	-0.26	-0.49	1.43	-1.49	-1.00	-0.38	2.17	2.00	0.77

Table 4

Clone ID	Var. Betw.	Var. Within	F	Probability
2380381	1.94	0.10	20.13	6.82E-08
1618422	2.04	0.07	27.49	5.37E-09
2672064	2.41	0.10	23.48	1.96E-08
608361	1.97	0.09	23.03	2.29E-08
1922596	4.97	0.19	25.77	9.14E-09
1850033	5.92	0.40	14.64	1.42E-06
986987	8.95	0.10	86.39	2.99E-13
718807	5.91	0.09	67.09	2.71E-12
2880435	1.47	0.06	24.37	1.45E-08
187326	10.19	0.13	79.62	6.10E-13
1997963	6.10	0.17	36.56	4.95E-10
467700	8.97	0.20	45.64	7.52E-11
57382	11.72	0.12	97.40	1.04E-13
1222442	4.12	0.17	23.82	1.74E-08
4013105	9.43	0.26	36.28	5.29E-10
924319	15.30	0.53	28.81	3.64E-09
1645119	3.78	0.11	34.35	8.37E-10
1379925	8.88	0.10	93.06	1.56E-13
1900961	6.90	0.17	40.30	2.17E-10
3506985	8.86	0.42	21.22	4.45E-08
551403	4.53	0.21	21.39	4.17E-08
3948420	7.12	0.19	36.73	4.76E-10
1722853	2.58	0.10	25.92	8.71E-09
1557490	4.82	0.15	33.20	1.11E-09
3208425	4.49	0.22	20.44	6.03E-08
1668474	5.40	0.08	67.90	2.44E-12
1622542	2.13	0.07	30.18	2.47E-09
4014318	3.14	0.15	20.97	4.89E-08
2394888	5.04	0.13	37.38	4.11E-10
1345550	14.73	0.19	76.01	9.14E-13
1719955	7.24	0.23	31.18	1.88E-09
2256026	2.96	0.11	26.92	6.38E-09
1538086	2.63	0.07	38.49	3.21E-10
958633	1.62	0.07	23.10	2.24E-08
2635943	10.60	0.16	66.67	2.86E-12
121888	11.84	0.13	88.75	2.36E-13
1627492	2.26	0.07	33.25	1.10E-09
4073867	2.26	0.11	21.01	4.82E-08
2190170	1.94	0.08	23.90	1.70E-08
972224	14.59	0.30	49.39	3.83E-11
1413644	4.89	0.24	20.10	6.90E-08
1538224	1.89	0.09	20.37	1.10E-07
2623268	2.63	0.12	21.59	3.87E-08
1665533	1.42	0.07	19.97	7.25E-08
981484	2.10	0.04	47.76	5.10E-11
973629	11.67	0.18	66.17	3.06E-12
1539638	1.56	0.04	35.82	5.89E-10
3015758	10.73	0.24	44.75	8.89E-11
2832314	4.17	0.14	30.35	2.36E-09
1702996	2.53	0.08	31.33	1.81E-09
839947	2.19	0.09	24.61	1.33E-08
1867522	17.51	0.28	61.87	5.47E-12
1987831	2.13	0.08	27.25	1.06E-08
2639708	9.66	0.07	137.49	4.99E-15
973815	11.77	0.23	51.52	2.66E-11
169884	11.47	0.12	96.95	2.14E-13
2638235	3.76	0.05	70.07	1.86E-12

Table 4

Clone ID	Var. Betw.	Var. Within	F	Probability
305198	8.01	0.19	42.81	1.30E-10
57997	6.98	0.15	45.44	7.81E-11
986558	7.92	0.13	61.57	5.71E-12
224996	9.69	0.26	37.77	3.76E-10
661259	3.88	0.18	21.82	3.55E-08
3246379	4.92	0.18	26.85	6.53E-09
78783	4.25	0.24	17.54	3.57E-07
2639181	27.23	0.12	219.82	7.75E-17
1672467	11.44	0.15	77.23	7.96E-13
2950063	13.85	0.21	65.86	3.18E-12
3288518	22.52	0.19	119.44	1.73E-14
184110	20.44	0.53	38.26	3.37E-10
1368173	5.43	0.09	61.20	6.02E-12
1813409	4.65	0.19	24.90	1.21E-08
58309	17.08	0.14	121.53	1.49E-14
1721744	3.00	0.09	35.26	6.71E-10
1924344	7.76	0.17	45.89	7.18E-11
3176845	12.14	0.19	62.97	4.70E-12
2286809	8.52	0.25	34.50	8.07E-10
1985244	4.68	0.16	29.30	3.16E-09
1570042	3.22	0.12	27.83	4.85E-09
2079906	2.69	0.14	19.61	8.40E-08
2852042	5.26	0.24	21.94	3.40E-08
1319020	4.01	0.15	26.40	7.49E-09
1572555	7.76	0.23	34.07	8.98E-10
782235	6.11	0.42	14.43	1.58E-06
1314882	6.00	0.29	20.42	1.08E-07
1403636	3.69	0.15	24.94	1.20E-08
1968921	1.21	0.06	20.09	6.93E-08
1558081	3.17	0.15	20.86	5.12E-08
2495131	4.68	0.17	26.87	6.48E-09
4049957	9.52	0.39	24.32	1.47E-08
1686585	6.01	0.18	33.56	1.02E-09
2696735	8.26	0.23	36.41	5.12E-10
1720149	5.48	0.24	22.65	2.63E-08
1866751	8.79	0.28	31.47	1.74E-09
1851696	5.84	0.12	50.27	3.28E-11
93820	7.72	0.34	22.63	2.65E-08
2368282	0.10	0.06	1.69	1.63E-01
2831248	1.22	0.03	35.01	7.14E-10
182802	0.82	0.09	8.93	4.98E-05
1003884	2.80	0.10	27.91	4.74E-09
1120	0.99	0.04	24.45	1.41E-08
1308542	1.47	0.05	26.85	6.52E-09
3820761	6.10	0.25	24.89	1.22E-08
1999167	3.20	0.16	20.08	6.95E-08
1522716	4.89	0.22	21.84	3.53E-08
1612969	1.71	0.05	34.60	7.88E-10
337500	1.99	0.09	22.42	2.85E-08
1285380	1.08	0.05	23.71	1.81E-08
1636639	2.34	0.06	37.45	4.04E-10
1985870	1.91	0.08	23.67	1.83E-08
1677936	15.10	0.56	26.99	6.26E-09
910612	13.68	0.66	20.60	5.65E-08
2594407	14.00	0.62	22.42	2.85E-08
963536	7.29	0.14	51.69	2.59E-11
2252895	6.28	0.23	26.86	6.50E-09

Table 4

Clone ID	Var. Betw.	Var. Within	F	Probability
2804190	1.78	0.05	32.78	1.24E-09
1998428	7.92	0.08	93.61	1.48E-13
1800114	4.50	0.18	24.96	1.19E-08
1806769	6.28	0.19	33.07	1.15E-09
2474163	3.77	0.16	23.26	2.11E-08
1435374	7.49	0.28	26.56	7.12E-09
434377	3.63	0.17	21.28	4.35E-08
2121863	4.60	0.09	50.89	2.96E-11
1597231	4.47	0.13	35.24	1.27E-09
4174437	13.13	0.41	32.27	1.41E-09
2182901	13.23	0.39	33.98	9.18E-10
1747979	1.80	0.05	36.38	5.17E-10
1630553	4.76	0.11	41.76	1.60E-10
478960	2.02	0.06	33.56	1.02E-09
2132487	2.54	0.10	26.35	7.61E-09
2921152	9.32	0.12	76.38	8.76E-13
1846428	6.42	0.10	67.23	2.66E-12
2796143	3.39	0.10	32.61	1.30E-09
1805613	3.54	0.14	25.38	1.04E-08
1431273	6.39	0.12	53.05	2.07E-11
1804662	2.47	0.11	21.54	3.95E-08
2921194	4.16	0.06	71.14	1.63E-12
395368	7.68	0.16	47.72	5.14E-11
2182861	1.49	0.07	21.65	3.79E-08
1806436	2.67	0.08	33.51	1.93E-09
2922143	8.80	0.24	36.96	4.51E-10
1696001	3.19	0.10	33.34	1.08E-09
1635004	9.35	0.40	23.56	1.91E-08
2132752	8.31	0.35	24.01	1.63E-08
1734393	9.31	0.18	52.61	2.22E-11
4179338	23.18	0.38	60.49	6.66E-12
1427623	8.58	0.27	31.57	3.16E-09
3320987	8.40	0.23	35.93	5.74E-10
2239819	7.95	0.12	65.54	3.32E-12
876720	3.67	0.03	111.15	3.27E-14
1910091	1.78	0.05	37.15	4.32E-10
2174130	1.34	0.05	24.70	1.30E-08
2219077	1.77	0.10	17.69	3.33E-07
1965041	2.32	0.11	21.88	3.48E-08
1649959	4.06	0.08	48.69	4.32E-11
1222317	2.48	0.12	19.82	7.71E-08
2510171	5.01	0.33	15.39	9.76E-07
1988674	2.89	0.13	22.61	2.66E-08
1672640	3.40	0.17	20.16	6.71E-08
1749417	4.09	0.11	36.76	4.72E-10
1926543	1.80	0.06	28.63	3.83E-09
1504934	7.25	0.13	57.58	1.02E-11
2512879	6.33	0.10	61.41	5.84E-12
1359832	9.34	0.25	37.96	3.60E-10
1583076	6.62	0.15	45.58	7.60E-11
139838	9.81	0.11	91.36	1.83E-13
1344654	5.30	0.10	50.79	3.01E-11
2513979	11.65	0.18	64.60	3.77E-12
2369312	12.93	0.31	41.06	1.85E-10
2048364	11.94	0.24	50.57	3.12E-11
85246	15.28	0.19	80.75	5.39E-13
166337	6.51	0.18	36.47	5.06E-10

Table 4

Clone ID	Var. Betw.	Var. Within	F	Probability
138274	2.89	0.06	50.18	3.34E-11
1633340	5.88	0.08	73.59	1.21E-12
1982416	4.23	0.10	43.11	1.22E-10
946822	0.84	0.04	23.67	1.83E-08
2517330	1.21	0.04	30.23	2.44E-09
2516489	3.69	0.08	48.89	4.17E-11
88741	6.33	0.16	39.74	2.45E-10
168865	7.32	0.11	69.05	2.11E-12
231779	2.11	0.03	65.83	3.20E-12
234123	2.35	0.05	45.40	7.87E-11
1833801	2.53	0.07	34.08	1.67E-09
1923613	3.53	0.08	43.51	1.13E-10
2058620	2.22	0.08	28.30	4.23E-09
1930954	2.94	0.10	28.90	6.55E-09
1511658	15.98	0.55	29.28	3.18E-09
2590673	5.18	0.10	53.53	1.91E-11
1995380	3.92	0.13	29.18	3.27E-09
167409	13.73	0.23	59.33	7.87E-12
1846226	2.37	0.05	43.87	1.05E-10
2052185	12.30	0.22	55.64	1.37E-11
2517389	6.16	0.09	68.31	2.32E-12
911015	4.29	0.11	39.90	2.36E-10
604856	3.92	0.60	6.50	3.91E-04
1448718	6.21	1.54	4.04	5.66E-03
2517268	6.93	0.10	68.50	2.26E-12
167134	7.22	0.12	60.59	6.57E-12
2843638	2.14	0.05	41.93	1.55E-10
1813269	9.85	0.34	29.17	3.29E-09
1861971	16.91	0.16	103.79	5.97E-14
2005973	4.25	0.21	19.94	7.33E-08
2515729	9.83	0.15	66.87	2.79E-12
2132356	4.65	0.08	56.22	2.42E-11
1001726	3.99	0.07	59.77	1.43E-11
2631845	6.14	1.08	5.70	8.59E-04
86390	4.78	0.24	20.25	6.48E-08
1287840	1.23	0.05	22.75	2.54E-08
2516905	3.22	0.09	35.40	6.50E-10
606122	3.70	0.18	20.77	5.29E-08
3553733	3.67	0.33	11.16	1.05E-05
1813381	9.36	0.21	43.66	1.10E-10
1988108	3.39	0.07	47.86	5.01E-11
1644648	5.80	0.16	36.83	4.65E-10
2516104	12.64	0.21	61.15	6.06E-12
2516448	5.80	0.14	40.95	1.89E-10
2514507	12.10	0.32	37.31	4.17E-10
1427470	3.80	0.09	43.37	1.16E-10
1311471	9.16	0.16	58.72	8.61E-12
195142	10.59	0.10	107.66	4.32E-14
29598	14.19	0.21	67.15	2.69E-12
1968576	4.52	0.10	46.73	6.15E-11
2959255	3.40	0.15	23.02	2.30E-08
446969	9.50	0.36	26.46	7.36E-09
1631511	8.27	0.15	56.65	1.17E-11
1508741	9.90	0.18	54.89	1.54E-11
2513602	8.11	0.16	49.65	3.66E-11
1981145	6.12	0.10	64.25	3.95E-12
2103752	3.95	0.07	54.70	1.59E-11

Table 4

Clone ID	Var. Betw.	Var. Within	F	Probability
2658782	9.83	0.26	37.29	7.89E-10
2099420	5.81	0.09	64.47	3.83E-12
637639	7.71	0.26	29.49	3.00E-09
279249	12.48	0.16	77.94	7.35E-13
1379063	6.24	0.20	30.82	2.08E-09
89747	11.71	0.16	75.19	1.01E-12
2515873	6.73	0.12	57.38	1.05E-11
1432372	4.27	0.11	40.13	2.25E-10
1633719	11.91	0.13	89.18	2.26E-13
1712663	4.84	0.14	35.46	6.41E-10
4285203	4.91	0.19	25.41	1.03E-08
1634342	2.22	0.09	24.38	1.44E-08
1418871	3.42	0.05	71.00	1.66E-12
3766382	1.81	0.09	19.98	7.22E-08
943181	3.56	0.10	34.37	8.34E-10
603761	5.67	0.35	16.30	6.27E-07
1297562	4.01	0.17	23.67	1.83E-08
2910715	3.39	0.12	27.78	4.92E-09
196975	1.26	0.05	23.77	3.21E-08
1453049	4.31	0.16	27.74	9.16E-09
1968695	2.01	0.07	30.29	2.40E-09
958344	10.67	0.11	100.25	8.10E-14
2820985	6.64	0.31	21.48	4.04E-08
1633393	2.80	0.04	62.93	4.73E-12
1806451	3.96	0.11	34.69	7.70E-10
2674772	9.66	0.15	64.17	3.99E-12
1376121	3.04	0.05	67.05	2.73E-12
831794	3.93	0.07	54.41	1.66E-11
1427681	8.17	0.15	52.87	2.13E-11
2912830	10.21	0.19	54.94	1.53E-11
504786	6.84	0.14	49.12	4.00E-11
254081	7.89	0.09	91.66	1.78E-13
1330674	7.28	0.27	27.09	6.06E-09
2377834	10.49	0.08	132.69	6.83E-15
2075464	7.13	0.12	61.36	5.89E-12
2383235	8.80	0.14	61.55	5.73E-12
1285503	1.07	0.16	6.72	3.18E-04
2383205	8.56	0.08	103.23	6.26E-14
2015871	0.76	0.28	2.71	3.41E-02
2374046	0.25	0.12	2.16	7.91E-02
1709828	1.54	0.06	25.45	1.01E-08
2061119	1.48	0.07	20.21	6.58E-08
3665105	5.13	0.15	34.78	7.55E-10
2068983	6.01	0.12	49.04	4.06E-11
2242648	4.90	0.12	41.17	1.81E-10
885032	4.17	0.15	27.40	5.52E-09
2383830	9.62	0.36	26.48	7.32E-09
2085191	10.37	0.09	119.16	1.77E-14
2792982	9.77	0.31	31.68	1.65E-09
179929	5.42	0.18	30.27	2.41E-09
2741788	2.88	0.05	53.93	1.79E-11
2373608	7.06	0.22	31.40	1.78E-09
2182095	13.19	0.26	51.25	2.78E-11
2923150	17.49	0.34	50.73	3.04E-11
293495	6.68	0.78	8.52	6.83E-05
4284270	5.92	0.18	33.45	1.05E-09
958923	2.30	0.14	16.98	4.57E-07

Table 4

Clone ID	Var. Betw.	Var. Within	F	Probability
1921393	9.15	0.21	43.78	1.07E-10
1447866	1.52	0.07	21.82	3.56E-08
1666737	2.87	0.14	20.22	6.57E-08
586245	4.67	0.28	16.50	5.71E-07
194162	8.72	0.49	17.90	3.04E-07
243123	4.13	0.14	28.53	3.95E-09
382416	5.66	0.44	12.79	3.89E-06
1852659	4.73	0.19	24.47	1.40E-08
3220181	1.78	0.09	20.77	5.30E-08
1726307	2.30	0.05	45.27	8.05E-11
1904244	1.49	0.09	16.95	4.65E-07
2039955	3.05	0.11	27.19	5.87E-09
2675641	2.23	0.12	19.34	9.39E-08
1412749	2.58	0.06	42.61	1.35E-10
1963854	1.85	0.09	21.03	4.80E-08
2949085	1.39	0.07	20.01	7.15E-08
2963196	4.17	0.14	29.26	3.20E-09
1505977	4.36	0.20	22.00	3.33E-08
1674985	1.33	0.04	31.95	1.54E-09
2109054	2.60	0.12	20.99	4.87E-08
3317039	2.16	0.07	30.17	2.48E-09
2838551	1.00	0.05	19.36	9.30E-08
1477568	3.38	0.17	19.47	8.88E-08
2963871	1.59	0.04	40.44	2.11E-10
1740547	3.18	0.02	133.38	6.53E-15
2292011	5.13	0.49	10.51	1.60E-05
1349484	1.28	0.05	26.46	1.35E-08
1674253	1.65	0.06	28.15	4.41E-09
1932189	5.13	0.24	21.07	4.71E-08
1403041	3.36	0.35	9.69	2.84E-05
1486358	3.26	0.11	29.08	3.37E-09
1439065	1.19	0.05	21.71	6.66E-08
530629	2.83	0.19	14.94	1.22E-06
1672676	4.19	0.08	50.44	3.19E-11
1989129	3.08	0.14	21.69	3.73E-08
1486348	4.85	0.12	40.19	2.22E-10
1397294	3.23	0.18	18.26	2.60E-07
2844322	4.50	0.10	46.79	6.08E-11
1481440	2.69	0.13	20.45	6.01E-08
26459	2.26	0.11	20.02	7.11E-08
1406786	1.74	0.09	20.45	6.01E-08
1485846	13.79	0.09	155.44	1.68E-15
2153242	3.68	0.15	24.68	1.30E-08
2157981	4.43	0.28	15.59	8.82E-07
3244361	2.35	0.09	26.64	6.95E-09
1986737	3.57	0.20	17.42	3.76E-07
2506867	6.38	0.29	21.92	3.42E-08
1211682	5.24	0.10	54.00	1.77E-11
1416354	3.06	0.13	24.40	1.43E-08
2963962	2.75	0.08	34.00	9.13E-10
1761086	3.61	0.09	40.13	2.25E-10
2588552	4.95	0.23	21.57	3.91E-08
1901271	3.46	0.16	22.22	3.07E-08
1740924	2.32	0.08	27.25	5.77E-09
1480159	3.06	0.12	24.71	1.29E-08

Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)												First	Second	Third	Fourth
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain				
2380381	1.65	0.20	-0.89	-0.30	-0.30	0.12	-0.77	0.85	0.83	-0.92	-0.84	-0.84	Heart			
1618422	1.52	-1.16	0.93	0.04	-0.17	0.70	0.17	-1.08	-1.13	-0.18	0.05	0.48	Heart			
2672064	2.10	-0.40	0.69	-0.74	-0.08	-0.44	0.40	-1.42	0.24	-1.66	-0.49	0.40	Heart			
608361	1.98	0.20	0.65	-0.87	0.32	-0.02	-0.06	-0.51	-1.07	0.82	-0.15	-1.00	Heart			
1922596	1.91	1.44	-1.81	-1.69	-0.60	-0.68	-1.61	1.42	0.77	-1.35	-1.47	0.83	Heart			
1850033	3.78	0.67	0.02	-0.40	-0.12	-0.31	-0.67	-0.95	-0.87	-0.47	-0.56	-0.73	Heart			
986987	5.33	0.26	-0.34	-0.64	-0.41	-0.70	-0.54	-0.81	-0.95	-0.75	-0.56	-1.07	Heart			
718807	3.97	-0.17	-0.83	-0.31	-0.45	-0.62	-0.50	-0.83	-1.35	0.24	-0.82	1.20	Heart			
2880435	2.07	-0.58	0.23	-0.49	-0.34	-0.16	-0.31	-0.55	-0.04	-0.49	-0.18	0.14	Heart			
187326	5.39	1.41	-0.40	-0.66	-0.69	-0.88	-0.77	-0.78	-1.37	-0.50	-0.82	-1.07	Heart			
1997963	2.95	2.64	-0.95	-0.90	-0.41	-0.48	-0.93	-1.25	0.31	-0.95	-1.64	-0.07	Heart	Sk Muscle		
467700	4.14	2.42	0.61	-1.24	0.49	-0.07	-1.16	-1.32	-1.39	-0.97	-1.06	-1.56	Heart	Sk Muscle		
57382	4.06	3.92	-0.77	-0.88	-0.29	-0.63	-1.72	-1.75	-0.46	-1.55	-1.72	-0.17	Heart	Sk Muscle		
1222442	2.19	1.68	-1.66	-1.60	-0.29	-0.13	-1.52	0.27	0.90	-1.02	-1.06	-0.16	Heart	Sk Muscle		
4013105	4.01	2.66	0.37	-0.76	-1.22	-1.77	-1.43	-1.92	0.39	-1.66	-0.50	-0.07	Heart	Sk Muscle		
924319	5.61	3.10	-0.95	-0.92	-1.24	-1.38	0.98	-1.30	-1.73	-1.16	-1.26	-1.87	Heart	Sk Muscle		
1645119	2.75	1.84	-0.69	-0.66	-0.80	-0.51	-0.84	-0.30	-0.46	-0.59	-0.65	-0.42	Heart	Sk Muscle		
1379925	3.79	3.38	-0.81	-1.08	-0.95	-1.21	-1.08	-0.90	-0.79	-1.19	-0.46	-0.78	Heart	Sk Muscle		
1900961	3.18	2.30	1.54	-0.62	-0.28	0.35	-1.44	-1.16	-0.96	-1.05	-1.24	-1.33	Heart	Sk Muscle	Uterus	
3506985	2.79	2.50	-1.72	-2.06	-0.44	0.21	0.37	-1.24	-1.79	-1.64	2.04	-2.23	Heart	Sk Muscle	Spleen	
551403	1.78	1.40	1.66	-0.15	0.50	-1.20	-1.18	-1.21	-1.16	0.17	-1.32	1.45	Heart	Uterus	Brain	Sk Muscle
3948420	2.03	1.78	1.93	1.86	0.26	-0.55	-0.14	-0.54	0.03	-0.94	-1.14	0.03	Heart	Uterus		
1722853	2.41	-0.27	-0.48	0.00	0.87	-1.17	-1.05	-2.16	-1.31	0.19	-1.90	1.84	Heart	Ovary		
1557490	2.70	-0.60	0.95	-0.84	-0.11	-1.18	-0.74	-1.75	-0.25	-1.04	-0.07	1.94	Heart	Brain		
3208425	1.31	2.87	-0.39	-0.70	-0.34	-0.05	-0.86	-1.59	0.11	-1.26	-1.36	0.69	Sk Muscle	Brain		
1668474	1.37	3.73	-0.50	-0.36	-0.22	-0.86	-0.84	-0.87	-1.10	-0.42	-0.51	-0.18	Sk Muscle			
1622542	-0.24	2.06	-0.66	-0.66	-0.34	0.05	-0.68	-0.79	-0.66	-0.43	0.09	1.19	Sk Muscle			
4014318	-0.24	3.10	0.17	0.10	-0.16	-0.35	-0.41	-0.43	-0.66	-0.16	-0.05	-0.96	Sk Muscle			
2394888	-1.00	3.41	-0.90	-0.84	-1.11	-1.14	-0.12	0.02	0.46	-1.39	-0.77	1.23	Sk Muscle			

Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)												First	Second	Third	Fourth
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain				
1345550	-0.59	6.89	0.09	-0.84	-0.69	-0.92	-0.35	-0.84	-1.39	-1.15	-0.62	-1.12	Sk Muscle			
1719955	1.25	4.16	-1.39	-1.25	-1.08	-1.21	-0.40	-0.09	0.16	-1.84	-1.49	0.30	Sk Muscle			
2256026	0.01	3.03	0.13	-0.10	-0.46	-0.37	-0.48	-0.32	-0.75	0.13	-0.27	-0.64	Sk Muscle			
1538086	0.13	2.04	-0.91	-0.74	-0.65	-0.73	-1.04	1.46	0.17	0.26	-0.81	-0.01	Sk Muscle			
958633	0.99	1.57	0.44	0.74	-0.61	-0.63	-0.53	-0.77	0.06	0.30	-0.77	-0.16	Sk Muscle			
2635943	0.59	5.72	-0.26	-0.76	-0.34	-0.47	-1.10	-0.92	-1.21	-1.32	-0.94	-0.57	Sk Muscle			
121888	1.23	5.92	-0.61	-0.55	-0.43	-1.24	-0.92	-0.72	-1.13	-0.90	-0.96	-0.99	Sk Muscle			
1627492	0.30	2.40	0.10	0.85	-0.41	-0.15	-0.69	-0.90	-0.11	-0.83	-0.73	0.08	Sk Muscle			
4073867	0.35	1.62	-0.56	-0.18	-0.45	-0.18	-1.16	1.37	0.61	-0.67	-0.73	-0.92	Sk Muscle			
2190170	0.20	2.24	0.39	0.43	-0.31	-0.25	-0.28	-1.05	-0.29	-1.01	-0.44	0.01	Sk Muscle			
972224	0.44	6.70	0.13	-0.38	-0.09	-0.68	-0.89	-1.14	-1.21	-1.45	-1.08	-1.56	Sk Muscle			
1413644	0.61	3.15	0.36	-0.74	-0.26	-0.14	-1.19	-1.37	-0.85	-1.26	-0.96	1.36	Sk Muscle			
1538224	1.11	1.71	-0.07	-0.33	-0.82	-0.61	0.06	-0.11	-0.11	-0.65	-0.70	-0.44	Sk Muscle			
2623268	0.14	2.07	0.97	0.23	0.65	-0.15	-0.61	-1.52	-0.23	-1.65	-0.74	0.44	Sk Muscle			
1665533	0.46	1.93	-0.12	-0.24	-0.46	-0.41	0.02	-0.83	0.02	-0.47	-0.14	-0.41	Sk Muscle			
981484	-0.04	2.58	-0.54	-0.60	-0.05	-0.33	-0.40	-0.41	-0.49	-0.10	-0.28	0.00	Sk Muscle			
973629	0.70	6.01	-0.53	-0.77	-0.35	-0.67	-1.03	-1.15	-1.02	-1.01	-0.55	-1.09	Sk Muscle			
1539638	-0.34	1.69	0.64	0.51	0.05	0.28	-0.04	-1.22	0.04	-1.21	-0.58	-0.06	Sk Muscle			
3015758	0.08	5.84	-0.58	-0.53	-0.48	-0.99	-0.83	-0.67	-1.21	0.29	-0.45	-0.98	Sk Muscle			
2832314	0.76	1.81	0.00	-0.19	-0.19	-0.23	-0.02	-2.79	0.85	-2.07	-0.55	1.05	Sk Muscle			
1702996	0.08	2.32	1.21	-0.20	0.46	-0.04	-0.39	-1.14	-0.50	-0.64	-0.92	-0.25	Sk Muscle			
839947	-0.11	2.43	-1.06	-1.33	-0.14	-0.37	-0.19	-0.25	-0.44	-0.37	-0.19	0.48	Sk Muscle			
1867522	0.02	7.47	-1.55	-1.81	-0.56	-1.54	-0.75	-0.41	-0.97	-1.23	-0.73	-0.67	Sk Muscle			
1987831	0.25	1.63	0.00 x		-0.32	-0.37	-0.50	-1.00	-0.76 x		-0.28	1.24	Sk Muscle			
2639708	0.36	5.54	-0.42	-0.82	-0.66	-0.56	-0.83	-0.92	-1.06	-0.53	-0.56	-0.79	Sk Muscle			
973815	0.84	5.96	-0.04	-0.41	-0.44	-0.88	-0.80	-1.33	-1.43	-0.90	-0.80	-0.80	Sk Muscle			
169884	2.50	4.51	-1.30 x		-0.70	-0.90	-1.18	-0.81	-1.64 x		-0.79	-0.38	Sk Muscle	Heart		
2638235	2.16	2.34	-0.60	-0.88	0.18	-0.67	0.02	-0.69	-0.48	-0.49	-0.92	-1.02	Sk Muscle	Heart		

Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)												First	Second	Third	Fourth
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain				
305198	3.03	3.74	-0.67	-1.25	-0.33	-0.91	-0.81	-0.94	-1.29	-0.71	-0.83	-0.67	Sk Muscle	Heart		
57997	1.82	4.08	-0.15	-0.67	0.29	-0.88	-1.08	-0.88	-0.96	-0.27	-0.80	-1.08	Sk Muscle	Heart		
986558	3.20	3.44	-0.10	-0.43	-0.21	-0.71	-1.21	-1.40	-0.84	-1.21	-1.23	-0.50	Sk Muscle	Heart		
224996	1.53	4.47	1.46	-0.90	0.54	-0.03	-0.35	-1.98	-1.88	-1.95	-1.36	-0.79	Sk Muscle	Heart		
661259	1.60	1.81	-0.74	-1.14	-0.35	-0.84	-1.33	1.29	0.57	-1.71	-1.45	0.03	Sk Muscle	Heart		
3246379	1.70	3.14	-0.33	-0.97	-0.50	-0.65	-0.87	-1.07	-0.99	-1.10	-0.72	0.71	Sk Muscle	Heart		
78783	1.54	2.12	0.11	-0.01	0.37	-0.10	0.32	-1.63	-0.15	-1.48	-0.19	-1.74	Sk Muscle	Heart		
2639181	5.65	6.89	-1.34	-1.35	-1.79	-1.28	-1.66	-1.50	-1.99	-1.38	-1.14	-1.97	Sk Muscle	Heart		
1672467	3.49	4.45	-0.15	-1.23	-0.83	-0.95	-1.54	-0.15	-1.51	-0.47	-1.33	-1.24	Sk Muscle	Heart		
2950063	3.16	5.44	-0.22	-0.26	-0.51	-1.63	-0.90	-0.76	-1.76	-0.92	-1.16	-1.50	Sk Muscle	Heart		
3288518	2.63	7.79	-0.41	-0.89	-1.04	-1.89	-1.12	-1.46	-1.24	-1.58	-1.02	-1.90	Sk Muscle	Heart		
184110	4.64	6.08	-1.14	-1.40	-0.42	-1.46	-0.88	-1.08	-2.10	-1.61	-1.08	-2.07	Sk Muscle	Heart		
1368173	1.89	3.01	-0.19	0.11	-0.63	-0.64	-0.91	-1.79	0.12	-1.53	-1.20	0.55	Sk Muscle	Heart		
1813409	1.60	2.68	-0.93	-1.60	0.42	-0.45	-1.21	-0.64	1.07	0.10	-1.32	-0.89	Sk Muscle	Heart		
58309	4.05	5.75	-1.98	-1.99	-0.46	-1.25	-1.29	-0.93	-0.92	-1.29	-1.32	-1.37	Sk Muscle	Heart		
1721744	1.83	1.95	0.38	-0.19	-0.45	-0.66	-0.71	-0.56	-0.86	0.45	-1.23	0.20	Sk Muscle	Heart		
1924344	0.70	4.20	1.63	-0.30	0.40	0.16	-1.00	-1.16	-1.79	-1.41	-0.50	-1.39	Sk Muscle	Heart		
3176845	0.92	4.37	3.13	1.01	1.00	0.65	-1.00	-2.44	-1.51	-2.31	-1.45	-1.86	Sk Muscle	Uterus		
2286809	1.31	3.52	-1.62	-1.36	-0.75	-0.60	-2.37	0.81	1.69	-1.36	-2.06	0.19	Sk Muscle	Uterus		
1985244	0.70	3.13	-0.61	-0.07	-0.79	-0.52	-0.92	0.70	-0.16	1.73	-1.64	-0.93	Sk Muscle	Kidney		
1570042	0.42	2.41	-0.39	-0.57	-0.66	-0.90	-0.81	-0.61	-0.89	-0.50	-0.16	1.61	Sk Muscle	Pancreas		
2079906	-0.86	-0.62	2.72	1.19	0.56	1.24	0.02	-0.55	-0.47	-1.40	-0.34	-0.55	Uterus	Brain		
2852042	-1.06	-1.16	3.56	0.89	1.43	1.17	0.06	-1.84	-0.72	-1.09	-0.57	0.86	Uterus			
1319020	1.84	0.73	2.47	1.35	0.13	-0.22	-0.28	-1.91	-0.15	-1.51	-1.05	-0.65	Uterus	Heart	Sk Muscle	
1572555	1.86	1.72	2.67	0.89	0.98	1.57	-0.79	-2.58	-0.92	-1.14	-1.30	-1.91	Uterus	Heart		
782235	-0.33	-0.47	4.14	2.86	0.71	0.25	0.87	-1.33	-0.49	-1.20	-0.50	-1.77	Uterus	Ovary		
1314882	0.56	0.23	3.44	2.53	0.63	0.64	0.88	-1.73	-0.91	-1.39	-0.80	-1.95	Uterus	Ovary		
1403636	-0.25	0.94	2.31	2.07	0.74	0.56	0.00	-1.93	-1.36	-1.75	-0.46	0.35	Uterus	Ovary		Intestine

Table 5

Clone ID	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain	First	Second	Third	Fourth
					Mean(tissue)-Mean(Entire Set)											
1968921	0.01	-0.21	1.86	1.57	0.08	0.19	-0.26	-0.81	-0.09	-0.74	0.14	-0.54	Uterus	Ovary		
1558081	0.59	0.19	2.44	1.74	0.66	0.26	0.55	-1.56	-0.11	-1.01	-0.71	-1.52	Uterus	Ovary		
2495131	0.58	1.51	2.74	2.30	0.11	0.08	0.45	-1.62	-1.36	-2.38	-0.87	-0.64	Uterus	Ovary	Sk Muscle	
4049957	-0.58	-0.62	4.73	2.60	1.88	1.84	0.24	-2.47	-0.57	-2.17	-0.76	-1.63	Uterus	Ovary	Stomach	Intestine
1686585	-0.02	1.11	2.99	2.81	0.94	-0.10	-1.37	-2.09	1.54	-1.33	-1.27	-0.90	Uterus	Ovary	Kidney	
2696735	0.30	-0.61	4.57	0.80	2.40	1.91	-1.06	-1.57	-1.14	-1.02	-1.03	-1.37	Uterus	Stomach	Intestine	
1720149	-1.28	-1.13	3.60	1.31	1.48	1.87	-0.03	-0.93	-0.33	-1.69	-0.53	-0.91	Uterus	Intestine		
1866751	-0.77	-0.09	4.21	0.72	2.33	2.66	-0.55	-1.78	-1.11	-1.54	-0.75	-1.70	Uterus	Intestine	Stomach	
1851696	0.88	-0.24	2.62	1.21	0.91	1.36	1.71	-1.29	-1.08	-1.86	-2.05	-1.41	Uterus	Lung		
93820	-0.71	-0.63	3.62	-0.24	-0.98	-0.88	-1.47	-1.08	1.31	-1.07	-1.11	3.25	Uterus	Brain		
2368282	-0.17	0.06	-0.02	4.25	0.01	-0.19	-0.21	-0.12	-0.47	0.02	0.09	-0.41	Ovary			
2831248	-0.15	-0.19	1.08	2.34	0.17	-0.15	0.35	-1.02	0.19	0.12	0.07	-0.76	Ovary			
182802	-0.14	0.11	-0.44	4.23	0.41	1.07	-0.55	-0.32	-0.32	-0.15	-0.72	-0.46	Ovary			
1003884	0.53	-0.54	1.46	1.72	0.23	0.36	0.79	-1.48	1.00	-0.77	-0.36	-1.73	Ovary			
1120	-0.29	0.20	0.65	2.02	-0.07	-0.21	-0.17	-0.43	0.16	1.22	0.27	-1.00	Ovary			
1308542	1.52	-0.36	-0.69	1.55	0.54	-0.35	-0.37	0.46	-0.67	0.90	-0.41	-0.53	Ovary	Heart		
3820761	1.30	0.65	2.23	2.98	0.57	0.49	0.70	-1.45	0.35	-1.14	-2.57	-1.94	Ovary	Uterus		
1999167	0.22	-1.37	1.62	1.66	0.34	0.15	-0.09	1.02	1.13	-1.40	-0.50	-1.94	Ovary	Uterus		
1522716	0.17	0.12	2.47	3.45	0.55	0.14	0.67	-2.58	-0.51	-1.39	0.48	-1.19	Ovary	Uterus		
1612969	0.08	-0.20	0.68	3.45	-0.22	-0.51	-0.54	-0.30	-0.32	1.82	-0.24	-0.05	Ovary	Pancreas		
337500	-1.02	-1.21	1.12	2.43	0.43	0.18	-0.10	-0.22	0.34	1.62	0.42	-0.77	Ovary	Pancreas		
1285380	-0.14	-0.45	-0.35	-0.62	2.14	-0.17	0.32	-0.41	-0.22	-0.25	0.31	-0.14	Stomach			
1636639	0.88	-0.51	0.87	-0.52	2.13	0.64	0.07	-0.88	-1.14	1.29	-0.67	-0.66	Stomach			
1985870	-0.45	-0.60	-0.43	-0.58	1.92	0.73	0.58	-0.68	-0.83	-0.75	1.15	-0.45	Stomach			
1677936	-0.85	-0.24	-0.52	-0.58	8.48	0.86	-0.74	-0.72	-1.47	-0.51	-0.32	-1.46	Stomach			
910612	-0.22	0.01	-0.41	-0.27	8.04	0.79	-0.76	-1.18	-1.37	-0.76	-0.67	-1.33	Stomach			
2594407	-1.02	-0.40	-0.99	-1.22	8.00	0.52	1.10	-1.00	-0.98	-0.95	-0.79	-1.38	Stomach			
963536	-0.15	-0.04	-0.54	-0.74	5.80	0.89	-0.64	-0.57	-1.05	-0.69	-0.61	-0.86	Stomach			

Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)												First	Second	Third	Fourth
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain				
2252895	-0.27	0.21	-0.77	-0.93	4.13	2.64	-0.95	-0.99	-0.64	-0.75	-0.72	-0.94	Stomach	Intestine		
2804190	-0.39	-0.33	-0.36	-0.26	2.01	1.57	-0.07	-0.69	-0.60	-0.46	-0.04	-0.32	Stomach	Intestine		
1998428	-1.03	-0.23	-0.85	-0.77	4.74	2.37	1.08	-0.82	-1.01	-0.20	-0.92	-1.70	Stomach	Intestine		
1800114	-1.28	-0.93	-0.94	-1.09	2.37	2.34	0.79	-0.70	1.01	-1.09	-0.41	-1.05	Stomach	Intestine		
1806769	-0.94	-0.15	-0.80	-0.59	3.14	2.27	2.06	-0.91	-0.96	0.18	-1.33	-1.45	Stomach	Intestine		
2474163	-0.62	0.16	-1.40	-1.02	2.85	-1.12	-0.49	0.44	1.65	-0.33	-1.20	0.67	Stomach	Kidney	Lung	
1435374	-1.67	-1.61	-1.56	-0.58	2.16	1.78	1.35	1.62	1.25	1.83	-1.16	-2.36	Stomach	Pancreas	Intestine	Liver
434377	0.10	0.13	0.04	-0.71	-0.81	2.29	1.24	-0.86	-1.03	-1.43	0.94	-1.59	Intestine			
2121863	-0.05	0.06	1.20	-0.05	1.20	2.51	0.88	-1.69	-0.39	-1.93	-0.40	-1.85	Intestine			
1597231	1.33	0.66	-1.34	x	-0.57	1.71	-1.23	1.43	-1.18	x	-1.38	-0.08	Intestine			
4174437	-0.99	-0.03	-0.66	-0.58	0.09	6.41	-0.38	-0.99	-1.54	-1.25	-0.22	-1.27	Intestine			
2182901	-0.75	0.32	-0.21	-0.72	-0.06	6.43	-0.72	-0.99	-1.49	-1.22	-0.72	-1.26	Intestine			
1747979	-0.87	-0.68	0.13	-0.34	0.36	1.62	-0.16	-0.69	-0.63	-0.34	1.30	0.02	Intestine			
1630553	-0.37	-0.17	-0.12	-1.19	-0.64	3.81	0.37	-0.79	-0.41	-0.49	-0.87	-0.51	Intestine			
478960	-0.60	-0.21	-0.65	-0.83	0.72	1.91	0.16	-0.58	0.73	1.08	-0.60	-0.94	Intestine			
2132487	-0.40	0.07	-0.72	-0.81	0.25	2.68	-0.35	-0.03	-0.87	0.78	-0.35	-0.40	Intestine			
2921152	-0.42	-0.07	-0.85	-0.71	-0.15	5.47	-0.61	-0.68	-1.00	-0.81	-1.03	-0.48	Intestine			
1846428	-1.05	0.55	-0.20	-0.37	-0.83	4.38	-0.38	-0.08	-0.52	-0.32	-0.93	-1.05	Intestine			
2796143	-0.68	-1.30	-1.58	-0.15	0.81	1.58	1.05	-1.55	1.36	0.91	-0.26	0.06	Intestine			
1805613	-0.59	0.35	-0.38	-0.42	0.01	3.29	-0.32	-0.42	-0.90	-0.50	-0.34	-0.51	Intestine			
1431273	-0.26	-0.20	-0.81	-0.69	0.00	4.52	-0.51	-0.74	-0.97	-0.09	-0.44	-0.59	Intestine			
1804662	-0.24	-0.36	-0.81	-0.68	-0.19	2.23	-0.94	1.11	0.51	-0.38	-0.66	-0.63	Intestine			
2921194	0.25	-0.38	1.06	1.27	1.00	2.36	0.74	-1.91	-0.25	-1.42	-0.70	-1.45	Intestine			
395368	-1.25	-0.59	-1.08	-0.91	0.01	4.57	-0.26	-0.95	1.19	-0.82	-0.14	-1.28	Intestine			
2182861	-0.11	0.17	-0.19	-0.25	-0.24	2.15	-0.52	-0.18	-0.31	-0.13	-0.27	-0.51	Intestine			
1806436	-0.44	-0.77	-0.19	x	-0.74	2.24	-0.94	0.60	0.60	x	-0.43	-0.24	Intestine			
2922143	-0.27	-0.56	-1.19	-1.48	0.57	5.23	-0.85	-0.43	-0.99	-0.80	-0.72	-0.23	Intestine			
1696001	-0.18	-0.63	-0.91	-1.24	-0.11	3.01	-0.75	0.09	0.41	0.15	-0.40	-0.51	Intestine			

Table 5

Clone ID	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain	First	Second	Third	Fourth
										Mean(tissue)-Mean(Entire Set)						
1635004	-1.17	-0.42	-1.16	-0.93	2.81	4.64	-0.85	0.03	-1.58	0.01	-0.20	-1.23	Intestine	Stomach		
2132752	-1.41	-0.38	-0.65	-0.11	3.20	4.19	-0.36	-1.12	-0.55	-0.62	-0.60	-1.22	Intestine	Stomach		
1734393	-0.90	-0.40	-1.03	-0.46	3.07	4.66	-0.97	-0.75	-1.25	0.05	-0.88	-0.74	Intestine	Stomach		
4179338	-0.66	-1.35	-2.01	-2.02	-0.67	5.83	-1.52	5.72	-1.81	-1.66	-1.65	-1.55	Intestine	Liver		
1427623	-0.78	-0.68	-0.96	x	-0.38	3.63	-1.29	2.56	-0.33	x	-1.11	-1.11	Intestine	Liver		
3320987	-0.84	-0.75	0.84	-1.27	-1.16	3.89	-1.23	-0.15	2.47	-1.62	-0.22	-1.99	Intestine	Kidney		
2239819	-0.98	-0.11	-1.12	-1.14	-0.85	3.63	-1.12	-0.88	2.68	2.13	-1.02	-1.21	Intestine	Kidney	Pancreas	
876720	-0.41	-0.37	-0.42	-0.58	-0.57	-0.44	3.45	-0.26	-0.50	-0.42	0.01	-0.49	Lung			
1910091	-0.31	-0.05	-0.23	-0.64	-0.47	-0.31	2.13	-0.60	-0.47	-0.28	-0.43	0.81	Lung			
2174130	-0.54	-0.18	-0.05	0.96	0.69	0.19	1.53	-0.72	-0.44	-0.67	0.40	-0.76	Lung			
2219077	0.35	-0.33	-0.02	0.05	-0.32	-0.42	2.07	-0.17	-0.36	-0.44	-0.16	-0.62	Lung			
1965041	0.63	0.06	0.31	-0.75	-0.84	-1.16	1.83	-0.93	0.76	-0.75	0.54	-0.88	Lung			
1649959	-0.98	-0.10	-0.62	-0.99	0.86	0.64	2.91	-0.32	0.71	-0.38	-1.27	-1.30	Lung			
1222317	0.01	-0.03	0.56	-0.98	0.16	0.13	2.15	-1.40	-0.21	-0.91	0.61	-1.11	Lung			
2510171	-0.48	-0.41	-1.08	-1.20	0.71	-0.67	3.38	0.43	0.16	-0.20	-0.94	-0.74	Lung			
1988674	-0.75	-0.48	-0.40	-0.64	-0.16	0.02	2.93	-0.47	-0.67	-0.51	0.42	-0.25	Lung			
1672640	1.48	0.55	1.07	0.52	-0.27	-0.50	1.62	-1.65	-1.31	-1.22	0.51	-1.00	Lung			
1749417	-1.09	-1.44	-0.37	-0.36	0.29	-0.28	2.35	-0.21	2.23	-0.89	-0.37	-0.72	Lung	Kidney		
1926543	-0.06	-0.67	-0.86	-0.64	-0.25	-0.01	-0.41	2.06	0.89	-0.32	-0.37	-0.37	Liver			
1504934	-0.39	0.09	-0.47	-0.20	-0.82	-0.85	-0.90	4.76	0.13	-0.53	-0.75	-0.99	Liver			
2512879	-0.69	-0.39	-0.31	-0.51	0.76	0.37	0.99	3.69	-0.67	-1.60	-0.49	-2.40	Liver			
1359832	-0.16	-0.67	0.00	-0.27	0.65	0.47	1.33	4.09	-0.31	-1.78	-0.93	-3.57	Liver			
1583076	-0.46	-0.73	-0.49	-0.69	1.12	0.66	0.83	3.73	-0.60	-1.46	-0.74	-2.40	Liver			
139838	-0.37	-0.49	-1.25	-0.60	-0.40	-0.70	-0.61	5.66	-0.76	-0.52	-0.51	-0.75	Liver			
1344654	-0.71	-0.46	-0.67	-0.71	-0.83	-0.70	-0.25	3.71	1.41	-0.51	-0.58	-1.02	Liver			
2513979	-0.73	0.06	-0.56	-0.32	-0.56	-1.00	-0.56	6.13	-0.83	-0.91	-0.90	-1.02	Liver			
2369312	-1.30	-0.46	-0.91	0.66	-1.07	-1.77	0.95	5.81	-1.91	-1.74	1.06	-0.70	Liver			
2048364	-0.83	-0.10	-1.45	-1.20	-1.00	-0.63	-0.30	6.12	-0.95	-0.93	-1.18	0.20	Liver			

Table 5

Clone ID	Mean(tissue)-Mean(Entire Set)												First	Second	Third	Fourth
	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain				
85246	-0.90	-0.33	-1.05	-0.65	-0.54	-1.19	-0.63	7.05	-0.41	-0.51	-0.92	-1.21	Liver			
166337	-0.77	-0.06	-0.10	-0.24	-0.13	-0.48	-0.26	4.48	-1.20	-0.24	-0.25	-1.16	Liver			
138274	-0.27	0.08	-0.38	-0.46	-0.38	-0.40	-0.34	3.03	-0.75	-0.29	-0.24	-0.35	Liver			
1633340	-0.23	-0.59	-0.87	-0.87	-0.40	1.41	-0.99	3.94	-0.90	-0.54	-0.62	-0.69	Liver			
1982416	0.14	-0.76	-1.22	-1.27	-0.21	-0.35	-0.48	3.52	-0.68	-0.22	0.28	-0.22	Liver			
946822	0.16	0.07	-0.09	0.42	-0.27	0.02	-0.39	1.50	-0.21	-0.33	-0.48	-0.46	Liver			
2517330	-0.01	-0.50	-0.73	-0.81	-0.22	0.21	-0.23	1.82	-0.38	0.17	-0.15	0.08	Liver			
2516489	-0.40	-0.39	-0.68	-0.78	-0.68	-0.59	-0.35	3.26	0.82	-0.25	-0.59	-0.53	Liver			
88741	-0.13	-0.06	-0.60	-0.21	-0.79	-0.73	-0.42	4.50	-0.86	-0.21	-0.65	-0.59	Liver			
168865	-0.27	-0.69	-1.16	-1.21	0.52	0.30	-0.67	4.70	-1.02	-0.64	-0.54	-0.78	Liver			
231779	-0.54	-0.69	-0.45	-0.38	0.01	0.56	-0.51	2.40	-0.26	-0.61	0.13	-0.48	Liver			
234123	0.31	-0.76	-1.03	-0.81	-0.44	0.52	-0.73	1.76	1.41	0.26	-0.83	-0.52	Liver			
1833801	-0.31	0.15	-0.66	x	-0.19	0.46	-0.70	2.06	0.74	x	-1.03	-0.80	Liver			
1923613	-0.15	0.15	-1.03	-0.29	-0.46	-1.05	-0.07	2.86	1.15	-0.95	-0.90	-0.57	Liver			
2058620	0.70	0.54	-0.52	0.01	-0.61	-0.42	-0.81	1.67	1.17	-0.84	-0.78	-1.05	Liver			
1930954	0.07	0.28	-0.37	x	-0.24	0.14	-0.72	2.27	0.59	x	-0.94	-1.29	Liver			
1511658	-0.75	-0.43	-1.06	-0.94	0.28	-1.17	-1.10	7.16	-0.48	-0.40	-0.93	-1.32	Liver			
2590673	-0.13	-0.44	-0.77	-0.63	0.06	-0.72	-0.34	4.00	0.15	-0.16	-0.92	-0.85	Liver			
1995380	-0.93	-1.08	-0.99	0.65	0.19	0.19	1.17	2.39	1.01	-0.29	-1.76	-0.58	Liver			
167409	-0.89	-0.47	-0.85	-0.38	0.85	-0.77	-1.25	6.45	-1.16	1.26	-0.81	-1.41	Liver			
1846226	-1.25	-1.28	0.40	0.85	0.01	0.48	-0.40	1.63	0.90	-0.99	-0.82	0.52	Liver			
2052185	-0.85	-0.01	-0.56	-0.73	-1.03	-0.64	-0.53	6.30	-1.16	-0.31	-0.70	-1.00	Liver			
2517389	-0.26	-0.47	-0.83	-0.79	-0.26	-0.65	-0.78	4.45	-0.06	-0.32	-0.49	-0.66	Liver			
911015	-0.98	-0.44	-0.70	-0.54	-0.20	0.01	-0.55	3.18	1.44	-0.45	-0.64	-1.08	Liver			
604856	0.16	-0.30	-0.65	-0.50	0.26	-0.75	0.25	3.02	-0.52	-0.38	-0.17	-1.14	Liver			
1448718	-0.85	0.04	-0.15	-0.04	-0.03	-0.43	-0.67	3.99	-0.81	-0.04	-0.40	-0.72	Liver			
2517268	-0.12	-0.10	-0.69	-0.81	-0.19	-0.61	-0.76	4.71	-1.02	-0.48	-0.41	-0.66	Liver			
167134	0.28	-0.46	-1.10	-1.18	0.17	-0.47	-0.91	4.71	-1.04	-0.43	-0.46	-0.50	Liver			

Table 5

Clone ID	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain	First	Second	Third	Fourth
						Mean(tissue)-Mean(Entire Set)										
2843638	-0.16	-0.58	-0.31	0.59	-0.17	-0.39	0.38	2.48	-0.65	-0.43	-0.41	-0.39	Liver			
1813269	-0.56	-0.93	0.88	-0.91	-0.77	0.22	1.28	4.75	-2.04	-1.42	0.15	-2.16	Liver			
1861971	-0.65	-0.21	-0.56	-0.61	-0.20	-1.47	0.00	7.31	-1.51	-1.21	-1.06	-1.30	Liver			
2005973	-0.27	-0.74	-1.13	-1.29	0.50	0.27	-0.45	3.49	-0.02	-0.37	-0.60	-0.70	Liver			
2515729	-0.71	-0.50	-1.08	-1.45	-0.83	-0.63	-0.89	5.52	0.49	-0.02	-1.14	-0.37	Liver			
2132356	-0.74	0.06	-0.49	x	-0.61	-0.67	-0.57	3.29	0.72	x	-0.65	-0.70	Liver			
1001726	-0.45	-0.48	-0.42	x	-0.56	-1.05	-0.05	2.77	1.16	x	-1.01	-0.24	Liver			
2631845	-0.79	0.09	-0.72	-0.89	0.08	0.12	0.59	3.77	-0.51	-0.95	-0.86	-1.38	Liver			
86390	-0.45	0.02	-0.22	-0.11	-0.06	-0.56	-0.31	3.84	-1.03	-0.48	-0.14	-1.00	Liver			
1287840	0.02	-0.31	-0.17	0.16	0.09	0.48	-0.54	1.54	0.51	-0.56	-0.81	-0.68	Liver			
2516905	-0.05	-0.27	-0.75	-1.04	-0.09	-0.45	-0.48	3.16	-0.72	0.02	-0.21	-0.09	Liver			
606122	-0.25	-0.44	-0.74	-0.70	-0.15	-0.22	-0.43	3.46	-0.52	-0.12	-0.33	-0.39	Liver			
3553733	-0.65	0.18	-0.81	-0.94	-0.35	-0.51	-0.17	3.08	-0.01	-0.41	-0.43	-0.27	Liver			
1813381	0.51	-0.05	-0.60	-0.21	-0.75	-1.01	-0.98	5.36	-0.91	-0.21	-0.67	-1.19	Liver			
1988108	-1.05	-0.87	1.08	2.06	-0.33	-0.38	-0.08	2.29	0.39	1.17	-0.43	-1.45	Liver	Ovary		
1644648	-1.33	-0.54	-1.07	1.84	0.38	1.65	-1.07	2.45	1.62	0.38	-1.53	-1.54	Liver	Ovary		
2516104	-0.66	-0.08	-0.73	-0.39	-0.76	3.04	-1.33	5.15	-1.62	-1.11	-1.40	-1.62	Liver	Intestine	Intestine	
2516448	-0.37	0.11	-0.57	-0.63	-1.01	1.62	-0.90	3.73	-1.10	-0.45	-0.72	-0.95	Liver	Intestine		
2514507	-1.15	0.20	-0.32	-0.32	-0.88	2.14	-1.21	5.48	-1.52	-0.92	-1.19	-1.54	Liver	Intestine		
1427470	-0.58	-0.74	-1.04	0.86	0.53	1.70	-0.32	2.46	-1.31	0.65	-0.55	-0.83	Liver	Intestine		
1311471	-1.04	-0.28	-0.17	-0.39	-0.48	1.74	-1.07	4.88	-1.26	-0.44	-1.00	-1.26	Liver	Intestine		
195142	-1.29	-0.57	-1.38	-1.27	1.24	1.93	-1.15	5.03	-0.97	-0.64	-1.10	-1.15	Liver	Intestine		
29598	-1.80	-0.91	-1.26	-0.33	1.25	3.21	-1.11	5.21	-0.71	-1.12	-1.22	-2.18	Liver	Intestine		
1968576	-1.18	-0.86	-1.29	-1.09	0.29	1.55	0.55	2.33	1.23	-0.78	-0.79	-1.54	Liver	Intestine		
2959255	-1.41	-0.90	0.18	1.00	-0.78	1.67	-0.64	1.93	-0.05	-1.53	0.76	-0.78	Liver	Intestine		
446969	-1.32	-1.59	-1.96	-2.08	-0.05	1.82	0.56	4.44	0.60	-0.90	-0.77	-1.42	Liver	Intestine		
1631511	-1.54	-1.21	-1.72	-1.27	-0.69	2.70	-0.22	2.95	2.04	-0.86	-0.78	-1.62	Liver	Intestine	Kidney	Kidney
1508741	-0.71	-0.32	-1.29	-0.48	-0.93	-1.23	1.65	5.17	-1.18	0.15	-0.85	-0.93	Liver	Lung		

Table 5

Clone ID	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain	First	Second	Third	Fourth
						Mean(tissue)-Mean(Entire Set)										
2513602	-0.49	-0.42	-0.69	-1.00	-0.78	-1.08	-1.29	3.82	2.96	-0.80	-0.87	-1.06	Liver	Kidney		
1981145	-0.64	-0.78	-0.63	-0.88	-0.86	0.71	-0.85	3.15	2.45	-0.88	-1.37	-1.07	Liver	Kidney		
2103752	-0.74	-1.31	-1.12	0.40	-0.16	0.43	0.89	2.03	1.71	0.52	-0.92	-1.53	Liver	Kidney		
2658782	-0.95	-1.13	-1.84	x	-0.82	1.01	-1.04	3.58	2.62	x	-1.42	-0.89	Liver	Kidney		
2099420	-0.43	-0.71	-1.28	-1.39	-0.90	-0.51	-0.64	3.00	2.74	-0.25	-0.94	-0.50	Liver	Kidney		
637639	-0.73	-0.60	-0.88	-0.77	-0.72	-1.32	-0.90	3.99	2.55	-0.98	-0.46	-0.88	Liver	Kidney		
279249	-0.49	-0.82	-1.28	-0.90	-0.88	-1.23	-1.55	4.71	3.73	-1.25	-0.94	-1.25	Liver	Kidney		
1379063	-1.65	-0.73	-0.97	-0.74	-0.21	0.25	-0.49	3.34	2.32	-0.29	-0.74	-1.17	Liver	Kidney		
89747	-0.93	-0.66	-1.22	-1.30	-1.00	-1.09	-1.33	4.91	3.18	-0.15	-1.11	-1.01	Liver	Kidney		
2515873	-0.70	-0.44	-0.49	-0.57	-0.97	-1.06	-0.93	3.83	2.18	-1.10	-1.08	-0.26	Liver	Kidney		
1432372	-1.30	-0.96	-1.53	-1.35	0.66	0.84	0.84	2.00	1.75	-0.77	-0.65	-1.22	Liver	Kidney		
1633719	-1.13	-0.86	-1.62	-1.39	-0.98	1.29	-1.48	4.28	3.36	-0.23	-1.44	-1.74	Liver	Kidney		
1712663	-0.56	-0.60	-0.62	-0.44	-0.03	-0.57	0.01	3.71	-0.68	1.95	-0.66	-0.72	Liver	Pancreas		
4285203	-0.83	1.26	-0.25	-1.06	-0.75	-0.17	-0.60	3.32	-0.90	1.96	-0.80	-0.90	Liver	Pancreas		
1634342	-0.85	-1.03	-0.60	-0.22	0.10	0.81	0.08	1.00	1.86	-0.22	-0.71	-0.70	Kidney			
1418871	-0.23	0.00	-0.42	-0.68	-0.45	-0.58	-0.26	-0.18	3.31	-0.27	-0.64	-0.52	Kidney			
3766382	-0.73	-0.61	0.43	-0.51	0.15	0.05	-0.32	-0.43	2.23	-0.14	0.11	-0.47	Kidney			
943181	-0.06	0.01	-0.43	-0.43	-0.30	-0.45	-0.63	-0.65	3.37	-0.23	-0.42	-0.46	Kidney			
603761	-0.82	-0.17	-0.79	x	-0.30	-0.86	-0.54	-0.57	3.77	x	-0.40	0.32	Kidney			
1297562	0.76	-0.53	0.95	-0.21	-1.08	-1.15	1.34	-1.81	2.23	1.04	-0.85	-0.17	Kidney			
2910715	-0.56	-0.53	-0.86	-1.34	0.67	-0.86	0.92	-0.39	2.73	1.00	-0.13	-0.93	Kidney			
196975	0.18	-0.20	-0.48	x	-0.11	-0.20	-0.66	0.50	1.58	x	-0.40	-0.41	Kidney			
1453049	-0.66	-0.55	-0.91	x	1.16	0.46	1.41	-0.76	2.28	x	-0.99	-1.35	Kidney			
1968695	-0.49	-0.44	0.06	-0.18	-0.18	1.44	-0.05	-0.86	1.73	-1.01	0.02	-0.87	Kidney			
958344	-0.03	-0.31	-0.98	-0.89	-0.43	-0.87	-0.96	-0.82	5.82	0.68	-0.89	-0.93	Kidney			
2820985	-1.00	-0.60	-1.08	-0.45	-0.40	2.44	-1.34	0.73	3.34	-0.55	-1.08	-1.16	Kidney	Intestine		
1633393	-0.28	-1.00	-0.69	-0.07	-0.35	1.65	-0.13	-0.88	1.92	0.28	-1.15	0.49	Kidney	Intestine		
1806451	-0.72	-0.15	0.17	-0.68	-0.35	1.88	-0.91	-0.75	2.74	-0.54	-0.69	-0.87	Kidney	Intestine		

Table 5

Clone ID	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain	First	Second	Third	Fourth
							Mean(tissue)-Mean(Entire Set)									
2674772	-1.43	-0.86	-1.33	-1.24	-0.78	2.41	-1.31	1.44	4.20	-0.20	-1.07	-1.47	Kidney	Intestine		
1376121	-0.67	-0.73	-1.03	-0.76	0.18	-0.67	1.83	-0.48	2.23	-0.35	-0.20	-0.38	Kidney	Lung		
831794	-0.02	0.67	-0.84	-1.00	-0.57	-1.15	-0.74	1.60	2.54	-1.58	-1.11	0.00	Kidney	Liver		
1427681	-0.99	-0.27	-0.83	-0.35	-1.02	-1.17	-0.84	3.24	3.60	-0.82	-0.76	-1.18	Kidney	Liver		
2912830	-0.78	-0.54	-1.49	-0.22	-0.44	-1.18	-1.22	1.73	4.88	2.60	-1.00	-1.40	Kidney	Pancreas	Liver	
504786	-0.61	-0.63	-1.01	-1.17	0.64	-0.98	-0.83	-1.42	3.62	-1.02	-0.53	2.35	Kidney	Brain		
254081	0.09	0.27	-0.52	-0.14	-0.34	-1.10	-0.42	-0.28	-0.14	8.97	-0.41	-0.39	Pancreas			
1330674	0.41	0.21	-0.11	-0.48	-0.08	-0.65	-0.39	-0.50	-0.72	8.59	-0.37	-0.56	Pancreas			
2377834	-0.29	0.76	-0.06	-0.28	-0.50	-0.64	-0.33	-0.27	-0.96	10.28	-0.41	-0.81	Pancreas			
2075464	-0.26	0.32	-0.07	-0.44	1.22	-0.29	-0.49	-0.43	-0.92	8.25	-0.49	-0.81	Pancreas			
2383235	-0.29	0.71	0.43	-0.28	-0.24	-0.96	-0.08	-0.29	-0.99	9.28	-0.41	-0.81	Pancreas			
1285503	-0.61	0.09	-0.67	-0.49	0.07	1.10	0.64	-0.26	-0.60	3.83	-0.39	-0.67	Pancreas			
2383205	-0.31	0.50	-0.08	0.00	-0.25	-0.56	-0.26	-0.05	-0.91	9.32	-0.52	-0.78	Pancreas			
2015871	0.19	0.82	0.33	0.10	-0.36	-0.42	-0.50	-0.60	-0.80	7.12	-0.42	-0.66	Pancreas			
2374046	0.28	-0.45	-0.78	-0.81	-0.39	-0.16	0.00	-0.05	0.09	4.23	-0.24	0.16	Pancreas			
1709828	-0.76	-0.86	-0.64	0.79	0.48	0.45	0.61	-0.51	0.96	2.20	-0.50	-0.27	Pancreas			
2061119	0.20	0.87	1.11	1.32	-0.04	0.10	-0.76	-0.98	-0.08	1.71	-0.30	-0.79	Pancreas			
3665105	-0.37	-0.42	-0.90	-1.12	-0.49	-0.08	-0.36	-0.37	1.07	6.89	-0.25	-0.22	Pancreas			
2068983	-0.66	-0.30	-0.46	-0.30	0.04	0.52	-0.25	-0.29	-0.58	7.80	-0.16	-0.50	Pancreas			
2242648	0.29	0.33	0.13	0.04	-0.19	-0.09	-0.27	-0.47	-0.84	6.92	-0.65	-0.58	Pancreas			
885032	0.54	0.06	-0.23	-0.51	0.47	0.12	-0.72	-0.75	-0.86	6.19	-0.15	-0.28	Pancreas			
2383830	-0.68	1.29	0.17	0.31	-0.06	-0.50	0.26	-0.57	-1.01	9.31	-0.61	-1.45	Pancreas			
2085191	-0.20	-0.03	-0.51	-0.27	-0.33	0.85	-0.57	-0.49	-0.80	10.19	-0.79	-0.73	Pancreas			
2792982	-0.13	0.17	-0.12	-0.05	0.01	1.34	-0.86	-0.78	-1.13	9.48	-0.85	-0.82	Pancreas			
179929	2.09	-1.33	-1.13	-1.39	1.30	1.65	-0.73	0.02	0.80	2.70	-1.24	-1.81	Pancreas	Heart		
2741788	-0.58	-1.06	0.59	1.65	0.66	1.10	-0.91	-0.65	-0.60	3.55	0.63	-0.49	Pancreas	Ovary		
2373608	-0.59	0.08	-0.08	-0.92	2.56	0.80	-0.75	-0.73	-0.86	7.14	-0.83	-0.85	Pancreas	Stomach	Intestine	
2182095	-0.59	-0.32	-0.67	-1.35	2.23	4.43	-1.26	-1.39	-1.53	6.86	-0.94	-1.27	Pancreas	Intestine	Stomach	

Table 5

Clone ID	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain	First	Second	Third	Fourth
								Mean(tissue)-Mean(Entire Set)								
2923150	-1.16	-0.28	-0.82	-0.86	2.97	3.67	-1.15	-1.30	-1.11	10.01	-1.49	-1.67	Pancreas	Intestine	Stomach	
293495	0.10	-1.09	-1.56	0.18	0.39	-1.08	-0.07	3.75	-0.78	4.65	-1.12	-0.54	Pancreas	Liver		
4284270	-0.80	-0.21	-0.63	-0.91	-0.87	-0.83	-0.23	3.61	-0.55	4.01	-0.62	-0.40	Pancreas	Liver		
958923	-0.52	-0.65	-0.35	-0.26	-0.36	-0.52	-0.63	-0.29	2.14	2.73	-0.56	0.68	Pancreas	Kidney		
1921393	-1.28	-1.10	0.26	-1.09	3.15	-0.28	-1.00	-1.28	3.40	4.61	-0.48	-1.42	Pancreas	Kidney	Stomach	
1447866	-0.47	-0.31	-0.13	-0.44	0.57	0.28	0.17	-0.34	-0.36	-0.64	1.94	-0.84	Spleen			
1666737	-1.13	-0.49	-0.27	-0.94	0.30	0.36	1.03	-0.48	-0.17	-0.50	2.43	-1.08	Spleen			
586245	-0.37	-0.26	1.74	-0.23	-0.14	0.09	-0.35	0.16	-0.20	-1.44	2.61	-2.19	Spleen	Uterus		
194162	-1.15	-0.35	-1.05	-1.03	3.19	1.56	-0.52	-0.73	-1.03	-1.30	3.20	-1.64	Spleen	Stomach	Intestine	
243123	-0.53	-0.27	-0.54	-0.77	0.19	-0.20	-0.77	-0.31	-0.78	0.67	-0.44	3.56	Brain			
382416	0.42	0.52	0.69	0.69	-0.64	-0.94	-0.35	-0.78	-1.53	-0.72	-0.73	3.38	Brain			
1852659	0.05	-0.49	-0.49	-0.75	-0.73	-0.32	-0.15	-0.55	-0.83	-0.07	-0.51	3.88	Brain			
3220181	-0.53	-0.65	-0.38	0.05	-0.22	1.41	-0.78	-0.09	-0.18	0.05	-0.49	1.68	Brain			
1726307	-0.60	0.74	0.26	0.58	0.08	-0.49	-0.15	-0.85	-0.79	-0.88	-0.31	2.32	Brain			
1904244	-0.21	0.13	-0.32	0.26	-0.54	-0.25	-0.46	0.08	-0.32	0.13	-0.42	1.90	Brain			
2039955	-0.51	0.05	-0.36	-0.52	-0.42	-0.52	-0.45	-0.18	-0.43	-0.33	-0.29	3.14	Brain			
2675641	-0.29	-0.73	0.39	0.27	0.17	-0.20	-0.85	-0.83	-0.12	-0.56	0.35	2.39	Brain			
1412749	0.09	-0.46	-0.76	-1.07	0.03	0.03	-0.51	-0.31	-0.59	0.20	-0.25	2.77	Brain			
1963854	-0.61	-0.87	0.23	-0.10	0.23	0.91	-0.74	-0.85	0.55	-0.84	-0.10	1.71	Brain			
2949085	0.16	-0.46	0.50	0.24	-0.19	-0.49	-0.12	-0.83	-0.34	-0.44	0.07	1.88	Brain			
2963196	0.18	0.29	-0.27	-0.49	0.12	-0.11	-0.70	-0.86	-1.03	-1.03	-0.63	3.46	Brain			
1505977	-0.21	-0.39	0.34	-0.48	-0.26	-0.83	-0.44	-0.05	-0.91	-0.20	-0.65	3.67	Brain			
1674985	0.46	-0.39	-0.25	-0.09	-0.59	-0.29	-0.38	-0.43	-0.01	-0.20	-0.23	1.93	Brain			
2109054	0.45	1.38	0.29	0.29	-0.56	-1.11	-0.70	-0.65	-0.18	-0.61	-0.90	2.00	Brain			
3317039	-0.49	0.01	-0.01	0.18	-0.01	-0.47	-0.66	-0.69	0.86	-0.37	-0.77	2.27	Brain			
2838551	-0.09	-0.22	0.00	-0.25	-0.25	-0.30	-0.31	-0.36	-0.02	0.29	-0.31	1.77	Brain			
1477568	0.65	-0.04	-0.22	-0.82	-0.13	-0.66	-0.49	-1.28	-0.04	-0.98	-0.30	3.00	Brain			
2963871	-0.25	-0.32	0.87	0.29	0.03	0.14	0.12	-1.14	-0.50	-0.47	-0.41	1.82	Brain			

Table 5

Clone ID	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain	First	Second	Third	Fourth
					Mean(tissue)-Mean(Entire Set)											
1740547	-0.31	-0.49	-0.44	-0.60	-0.22	-0.21	-0.28	-0.64	-0.66	-0.47	0.24	3.15	Brain			
2292011	0.10	-0.24	-0.09	-0.75	-0.13	-0.68	-0.37	-0.39	-0.80	-0.80	-0.64	3.68	Brain			
1349484	-0.29	0.22	0.21	x	-0.41	-0.37	-0.12	-0.37	-0.60	x	-0.04	1.71	Brain			
1674253	-0.51	-0.28	-0.80	-0.52	-0.56	-0.43	1.02	-0.67	0.57	-0.52	-0.14	1.70	Brain			
1932189	0.07	-0.50	-0.99	-1.17	-0.14	-0.30	-0.64	-0.80	-0.69	-0.30	0.13	3.97	Brain			
1403041	0.36	0.45	0.53	-0.34	-0.17	-0.41	-0.67	-0.81	-0.86	-0.55	-0.67	2.66	Brain			
1486358	0.28	-0.50	-0.01	0.33	-0.05	-0.23	-0.17	-1.00	-0.17	-1.16	-0.92	3.03	Brain			
1439065	0.13	-0.37	-0.58	x	-0.30	-0.17	-0.13	-0.06	-0.53	x	0.04	1.68	Brain			
530629	-0.42	0.15	-0.39	x	-0.47	-0.19	-0.34	-0.36	-0.74	x	-0.20	2.68	Brain			
1672676	-0.06	-0.47	0.32	0.21	-0.36	-0.42	-0.51	-0.95	-0.71	-0.68	-0.30	3.59	Brain			
1989129	-0.39	-0.44	0.26	0.00	0.10	-0.03	-0.33	-1.18	0.11	-1.00	-0.60	2.95	Brain			
1486348	-1.03	0.33	0.41	0.41	-0.34	-0.33	-0.53	-0.93	-1.14	-0.20	-0.20	3.71	Brain			
1397294	-0.53	0.01	-0.30	-0.89	-0.04	-0.54	0.13	-0.66	-0.89	-0.78	0.51	2.75	Brain			
2844322	0.11	-0.22	0.46	-0.02	-0.36	-0.55	-0.16	-0.88	-1.15	-0.75	-0.61	3.64	Brain			
1481440	-0.62	0.26	-0.25	0.67	-0.52	-0.44	-0.34	-0.43	-0.72	-0.33	-0.14	2.82	Brain			
26459	0.60	-0.56	-0.83	-0.84	-0.30	-0.67	-0.20	-0.15	-0.31	-0.34	-0.05	2.49	Brain			
1406786	-0.47	0.48	0.25	0.19	-0.07	-0.48	-0.05	-0.66	-0.47	-0.92	-0.36	2.14	Brain			
1485846	-0.37	-0.40	0.01	-0.38	-0.49	-0.04	-1.26	-1.03	-1.58	-1.04	-1.11	6.58	Brain			
2153242	-0.65	-0.37	-0.68	-0.90	-0.31	0.16	-0.29	-0.41	-0.75	-0.23	-0.03	3.38	Brain			
2157981	-0.35	-0.53	-0.45	-0.24	-0.20	-0.73	-0.68	-0.60	0.77	0.07	-0.62	3.23	Brain			
3244361	-0.47	-0.04	-0.23	-0.55	-0.36	-0.54	-0.64	1.42	-0.66	-0.14	-0.60	2.16	Brain			
1986737	-0.10	1.12	-0.16	-1.11	-1.01	-0.57	-0.59	-1.10	-0.04	-0.91	0.10	2.63	Brain			
2506867	-0.67	0.12	0.21	1.14	-0.88	-0.18	-0.91	-1.40	0.71	-0.86	-1.37	4.06	Brain			
1211682	1.89	-0.92	-0.91	-0.22	-0.43	0.47	-1.04	-0.37	-1.24	-1.54	-0.50	3.18	Brain	Heart		
1416354	1.96	-0.66	-0.27	-0.78	-0.93	-0.46	-0.39	-0.60	-0.77	-0.61	0.01	2.16	Brain	Heart		
2963962	1.40	-0.36	1.60	0.14	-0.23	-0.29	-0.80	-0.70	-1.15	-0.55	-0.66	1.78	Brain	Uterus		
1761086	0.70	0.98	-1.19	-1.49	0.57	1.61	-1.03	-1.05	-0.55	-1.04	-1.17	1.77	Brain	Intestine		
2588552	-0.84	0.98	-1.45	-1.33	-0.23	-1.10	1.97	-0.61	-0.82	-0.15	-0.75	2.78	Brain	Lung		

Table 5

Clone ID	Heart	Sk Muscle	Uterus	Ovary	Stomach	Intestine	Lung	Liver	Kidney	Pancreas	Spleen	Brain	First	Second	Third	Fourth
	Mean(tissue)-Mean(Entire Set)															
1901271	-1.09	-1.96	-1.10	-0.34	-0.51	0.86	-0.30	1.52	0.41	-0.87	0.30	1.73	Brain	Liver		
1740924	-0.04	-0.43	-0.84	-0.64	-0.23	-0.52	-0.51	1.67	-0.80	-0.23	-0.26	1.90	Brain	Liver		
1480159	-0.86	-0.07	-0.82	-0.86	-0.79	-0.52	-0.59	-0.38	0.50	2.34	-0.05	2.55	Brain	Pancreas		

What is claimed is:

1. A plurality of cell and tissue specific polynucleotides selected from SEQ ID NOs:1-416 or the complement thereof.

2. A subset of the polynucleotides of claim 1, wherein the subset is selected from at least one of the groups consisting of

    a) SEQ ID NOs:209-218 and 1-10, cell specific polynucleotides of heart and fragments thereof,

    b) SEQ ID NOs:219-249 and 11-41, cell specific polynucleotides of skeletal muscle and fragments thereof;

    c) SEQ ID NOs:250-251 and 42-43, cell specific polynucleotides of uterus and fragments thereof;

    d) SEQ ID NOs:252-256 and 44-48, cell specific polynucleotides of ovary and fragments thereof;

    e) SEQ ID NOs:257-263 and 49-55, cell specific polynucleotides of stomach and fragments thereof;

    f) SEQ ID NOs:264-283 and 56-75, cell specific polynucleotides of intestine and fragments thereof;

    g) SEQ ID NOs:284-293 and 76-85, cell specific polynucleotides of lung and fragments thereof;

    h) SEQ ID NOs:294-345 and 86-137, cell specific polynucleotides of liver and fragments thereof;

    i) SEQ ID NOs:346-356 and 138-148, cell specific polynucleotides of kidney and fragments thereof;

    j) SEQ ID NOs:357-374 and 149-166, cell specific polynucleotides of pancreas and fragments thereof; and

    k) SEQ ID NOs:375-416 and 167-208, cell specific polynucleotides of brain and fragments thereof.

2. The composition of claim 1, wherein the polynucleotides are immobilized on a substrate.

3. A high throughput method for detecting expression of a polynucleotide in a sample, the method comprising:

    a) hybridizing the polynucleotides of claim 1 with the nucleic acids of the sample under condition to form a hybridization complex; and

    b) detecting the hybridization complex, wherein the presence of hybridization complex indicates expression of the polynucleotide in the sample.

4. The method of claim 3 wherein the nucleic acids of the sample are amplified prior to

74

hybridization.

5.   The method of claim 3 wherein hybridization complex formation indicates the differentiation of embryonic stem cells into a tissue selected from the group consisting of brain, heart, kidney, liver, lung, muscle or pancreatic tissues.

6.   A high throughput method of screening molecules or compounds to identify a ligand, the method comprising:

a)   combining the polynucleotides of claim 1 with molecules or compounds under conditions to allow specific binding; and

b)   detecting specific binding, thereby identifying a ligand which specifically binds to the composition.

7.   The method of claim 6 wherein the molecules or compounds are selected from DNA molecules, RNA molecules, peptide nucleic acids, mimetics, peptides, and proteins.

8.   An isolated polynucleotide selected from SEQ ID NOs:212, 228, 233, 259, 271, 287, 316-319, 324, 370, 379, 380, 383, 410, and 412 or a fragment thereof.

9.   The polynucleotides of claim 8 wherein the fragments are SEQ ID NOs:4, 20, 25, 51, 63, 79, 108-111, 116, 162, 171, 172, 175, 202, and 204, respectively.

10.   An expression vector containing a polynucleotide of claim 8.

11.   A host cell containing the expression vector of claim 10

12.   A method for producing a protein, the method comprising the steps of:

(a)   culturing the host cell of claim 11 under conditions for the expression of protein; and

(b)   recovering the protein from the host cell culture.

13.   A protein produced by the method of claim 12.

14.   A high-throughput method for screening a library of molecules or compounds to identify at least one ligand which specifically binds a protein, the method comprising:

(a)   combining the protein of claim 13 with the library under conditions to allow specific binding; and

(b)   detecting specific binding between the protein and a molecule or compound, thereby identifying a ligand which specifically binds the protein.

15.   The method of claim 14 wherein the library is selected from DNA molecules, RNA molecules, peptide nucleic acids, mimetics, peptides, proteins, agonists, antagonists, antibodies or their fragments, immunoglobulins, inhibitors, drug compounds, and pharmaceutical agents.

16.   A method of purifying a ligand from a sample, the method comprising:

a)   combining the protein of claim 13 with a sample under conditions to allow specific binding;

b)   recovering the bound protein; and

c)   separating the protein from the ligand, thereby obtaining purified ligand.

17. A composition comprising the protein of claim 13 in conjunction with a pharmaceutical carrier.

18. A purified antibody that specifically binds to the protein of claim 13.

SEQUENCE LISTING

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      SORNASSE, Thierry R.
      SEILHAMER, Jeffrey J.
      WATSON, George A.

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<220>
<221> unsure
<222> 230
<223> a, t, c, g, or other

<400> 10
ctgagtctca gcatggcgga tgggagcagc gatgcggcta gggaacctcg ccctgcacca 60
gccccaatca gacgccgctc ctccaactac cgcgcttatg ccacggagcc gcacgccaag 120
aaaaaatcta agatctccgc ctcgagaaaa ttgcagctga agactctgct gctgcagatt 180
gcaaagcaag agctggagcg agaggcggag gagccggcgc ggagagaagn ggcgcg    236


<210> 11
<211> 225
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3208425H1

<220>
<221> unsure
<222> 204, 214, 220, 222, 224
<223> a, t, c, g, or other

<400> 11
gcactgaccc cggagcagaa gaaggagctg tctgacatcg ctcaccgcat cgtggcacct 60
ggcaaggggc atcctgggct gcagatgagt ccactgggag cattgccaag cggctgcagt 120
ccattggcac cgagaatcac cgaggagaac cggcgcttct accgccagct gctgctgaca 180
gctgacgacc gcgtgaaccc tganttgggg gtgnaatccn tntnc            225


<210> 12
<211> 468
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1668474F6

<220>
<221> unsure
<222> 58
<223> a, t, c, g, or other

<400> 12
cctctctgga gtgtagcaag gctgaggact ctgatgccac aggtcacgag tggaagtngg 60
aggggcatc tcagaggaac cgcggggccc cgagttgggc tctctggaac ttgtggagga 120
cgacacagtg gattcagatg ccacaaatgg ccttatcgat ttgcttgaac aggaggaagg 180
tcagaggtca gaagagaagc tgccaggttc taagaggcag gatgacgcga caggtgcagg 240
gcaggactca gagaatgaag tgtctcttgt ttcaggccat cagagggggc aagcccgaat 300
cacacattcc cccaccgtga gtcaggtgac ggagaggagt caggacagac tgcaggactg 360
ggatgcagac ggctcgattg tctcatacct gcaagatgct gcacaaggtt cctggcaaga 420
ggaggtcacg caaggtccac actcattcca ggggacaagt accatgac          468


<210> 13
<211> 213
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1622542T6

<220>
<221> unsure
<222> 98, 170, 200
```

<223> a, t, c, g, or other

<400> 13
```
agcaaatctc ttagtatttt tcctcttgtc caaaggttct gaccatgttc atgacctaag 60
cttgtccctg gaagcataca tgtccctggg agacaggnag gttcagggaa cttctccacc 120
ctgattctag ccaatggcca gcgaactcct tttccagggt tggcttggcn gtgtcgggga 180
atgatgcagg ttcatcgggn tgggcatgaa aag                                213
```

<210> 14
<211> 420
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4014318T6

<220>
<221> unsure
<222> 10, 12, 63, 71, 365, 376
<223> a, t, c, g, or other

<400> 14
```
cagttaaaan tncttcccag ggctcctgga agccaaggag gggacgctgg gctcaccaga 60
ganggtgtgt nttatcaccg agaaagagac aggctggcta tttacacgga acacccagct 120
ggcaaacaca ggttgtccct gcaatgttca taaaggacaa ctggaggcag cttatcagag 180
gctggtacag tggggacacc tctgagctcc aggggaagtt gggcccctgc aaacacctgt 240
ccacctgctg gctctgcctc ccccaactgt ggccaggtta ggactcacgt cttgctctat 300
tcccagggga gcctgcggca gcccagagga actcagagag aggaagcagc ctgcgactgt 360
tgcangggg cagatnggag cagggtgggg ctaaaattgc tcccggcctc ctcttctggg 420
```

<210> 15
<211> 262
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2394888H1

<220>
<221> unsure
<222> 92, 155
<223> a, t, c, g, or other

<400> 15
```
ctacaggctt ccaggcacct catcagtcat gttcctcctc cattttaccc cctacccatc 60
cttgatcggt catgcctagc ctgacccttt antaaagcaa tgaggtagga agaacaaacc 120
cttgtccctt tgccatgtgg aggaaagtgc ctgcntctgg tccgagccgc ctcggttctg 180
aagcgagtgc tcctgcttac cttgctctag gctgtctgca gaagcacctg ccggtggcac 240
tcagcacctc cttgtgctag ag                                             262
```

<210> 16
<211> 256
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1345550H1

<220>
<221> unsure
<222> 83
<223> a, t, c, g, or other

<400> 16

```
ccgccctgcg aggaatgcat cgtgtggctg ctgctgaagg agcccatgac cgtgagctct  60
gaccagatgg ccaagctgcg ganctcctct ccagtgctga gaacgagccc ccagtgcctc 120
ttgtgagcaa ctggcgacct ccacagccta tcaataacag ggtggtgaga gcttccttca 180
aatgaggctg ctggatcttg ccctcttcag gaaaggaaac ctaccattgg agagcttggt 240
tccttgcctc cttctg                                                  256
```

<210> 17
<211> 210
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1719955H1

```
<400> 17
gtgtgtaagg cgggagcagc tgagaagggg gtccccctgt accgccacat cgcagatctc  60
gctgggaacc ctgacctcat actcccagtg ccagccttca atgtgatcaa cgggggctcc 120
catgctggaa acaagctggc catgcaggag ttcatgattc tgcctgtggg agccagctcc 180
ttcaaggaag ccatgcgcat tggcgccgag                                   210
```

<210> 18
<211> 252
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2256026H1

```
<400> 18
atcgtggtgc agaaaggaga cgaagcgggc ggctacgtca aggtctacac cggccgcaag  60
tggggctgtt tcccaccgac tttctagagg aaatttaggc gtgcgggcgc ctgcaagcgg 120
gagacaccca cacccattc tgggcgggcc cagtggagtt tggggagggg ggcgaaagca 180
acgggactgc tgggagagga ggggtaggaa ggcccgcctg agcgcgacgg ggcttccggg 240
aagggactgg tt                                                      252
```

<210> 19
<211> 643
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1538086T6

<220>
<221> unsure
<222> 2-4, 13, 16, 19-21, 24, 28-29, 31-43, 45-46, 49, 52, 58, 82, 93, 605, 619, 623
<223> a, t, c, g, or other

```
<400> 19
cnnncgcccc cgntcnatnn nccnattnnt nnnnnnnnnn nnnanngcng gngtttantt  60
cgaccgtcga gggacccgtg cnagtgggca gcnagtgacc cctcgacaga gaagctggga 120
aagctgctgg tgacacacag ctgggatcag ccctgggctg gtgggacccc tcacagagaa 180
gccgggaaag cttctggtga cacacagctg ggatcagccc agggctggtg cgacaccctg 240
gactcccggc caggaaggca cggaggaggg catgggtgtg gccgggccgg ggtggggggct 300
cagcctttgg tcaccagggg cgtgattcat ctgtgggaag gcgtagtagc ggcagttcgg 360
ccggtgggaa ccagcgccat caaccttccc gtacggatgt tctcccctcc cggaaagccc 420
ggcctccagc agcgcggggc aacctggcgt tcttcctcaa acatgatggt gatgtctgag 480
tacttggaac ttcatcagct tcccccaggg aggtgaggtt gcagtaggtg aggaacgccc 540
ccccggcttc agcaggcgaa aaggcgtggt tcttgatgaa gtttgaactg ggtgtgtgtg 600
ccaangttct tccttccgna ganttggggt acgtgttcgt aac                    643
```

<210> 20
<211> 273

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 958633H1

<220>
<221> unsure
<222> 8, 126
<223> a, t, c, g, or other

<400> 20
ggcaaatntg agtggcttct ctaagcatct gctggtacaa gtcaatgtgg caccatgagc 60
ttcatggtgg cagaagagac aatagtcctt agctctcctc ccagtacacc ccctacttgg 120
ccagtntgta ggccaacaag aaggttcctt tacccccatg caagacactt atgagaacac 180
attacaagat ggctgaccgt ggaggatgag tggatcctga aaggttgtcc caaactgttg 240
atttggaaaa gaaataagca catagataac ctt 273

<210> 21
<211> 452
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2635943T6

<220>
<221> unsure
<222> 4-5, 7-8, 20, 28, 31-32, 42-43, 59, 63, 236
<223> a, t, c, g, or other

<400> 21
ccanntnntg gccacaatan ttaaattnaa nngattggcc gnngtgttac caagaagant 60
cancctttct actccttctc tttcgtctgg tcactcagaa atataatatt atcagctatg 120
attgttgttg cttgtcgcct cacattattt ttatccatgt attcaccata gtctattttc 180
ccttccaaat aaattcgaga cccctttttc acatattgat atgccacgtc tctgangcct 240
ggccggaata ctgatattct gtgccatgtt gtcttttgac tgacatcacc cagttggtaa 300
acttcactat cccctgatcg ccacatctca ttagttgcta gagaaaatat tgtgactgga 360
tttttttcctt ccacctgtct caagacaggg tcctgaccca ctcgcccaag taagtggcac 420
acgattcagg gatctttcaa agaaccaaac tg 452

<210> 22
<211> 181
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 121888H1

<220>
<221> unsure
<222> 18, 56, 133, 173
<223> a, t, c, g, or other

<400> 22
aaacatgaga ggcgagtnaa ggaactcact taccagacgg aagaagatag aaagantatt 60
ctcaggcttc aagatttggt agataaactt caggcaaaag tgaaatctta taagagacaa 120
gctgaggagg ctnaggaaca atccaacacc aatctagcta aattccgcaa gcnccagcat 180
g 181

<210> 23
<211> 206
<212> DNA
<213> Homo sapiens

```
<220>
<221> misc_feature
<223> Incyte ID No: 1627492H1

<400> 23
ctcgagccgt caaaatggaa caggctaaaa cagaggatga aaagtccaaa ttaactgtgc 60
tacagatgac acacaacaag cttcttcaag aacataataa tgcattgaaa acaattgagg 120
aactaacaag aaaagagtca gaaaagtgg acagggcagt gctgaaggaa ctgagtgaaa 180
aactggaact ggcagagaag gctctg                                          206

<210> 24
<211> 299
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4073867H1

<220>
<221> unsure
<222> 161
<223> a, t, c, g, or other

<400> 24
cagccatgga gcagcttcgc gccgccgccc gtctgcagat tgttctgggc cacctcggcc 60
gccctcggc cggggctgtc gtagctcatc ccacttcagg gactatttcc tctgccagtt 120
tccatcctca acaattccag tatactctgg ataataatgt nctaaccctg aacagagaa 180
aattttatga agaaaatggg tttctagtaa tcaaaaatct tgtacctgat gccgatattc 240
aacgctttcg gaatgagttt gaaaaaatct gcagaaagga ggtgaaacca ttaggatta 299

<210> 25
<211> 289
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2190170T6

<220>
<221> unsure
<222> 16, 92, 130, 251-252
<223> a, t, c, g, or other

<400> 25
tgactagtta aattancatg cttgacatta actctgggtt gaaacctacc tccgtcaaat 60
aacaagtgga ctctccaagc aaatgtctac anggcaattc aagcagcaac tcaagagccc 120
agaggagcan tggagacgag gccatcactc cacttcccag tgcgacaacc acttttttgt 180
aaacacctgt cagatgctaa aaatacggcc ttacacacta ccgtcaccaa agtttataag 240
caataagatc nnagagcagg agccgctgca gcacctctaa cagtccagg              289

<210> 26
<211> 433
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 972224T6

<220>
<221> unsure
<222> 87, 138, 149, 164, 170, 210, 238, 289, 307, 314, 316, 339, 368, 372,
381-382, 388, 411, 417, 424
<223> a, t, c, g, or other
```

```
<400> 26
cgaacagaag cgtcgggcag cggaggcccg cgggtgcccc tactcctggt ccttggcgtc 60
gccgtgcgtg atgacgtagc agatgtnttt gtagtcgacg ttgccgccca cgtcgggggg 120
gaaggccgcc cacatgtnct tgatctccnc ctgggagaag cggncacacn gcgtggtcag 180
cagctcctcc aggaacttct tcttgatggn gccctttccc tcagggtcca agaccttnaa 240
ggctccggtg atcacatcct cagggtcggc acccttgagc ttctccccna acatggtcag 300
gaagacngtg aagntnatgg gaccgctggc ttccttcanc atggcatcca actcctcatt 360
cttcacantg angcggccca nngctgcnaa ggtgtcccga agtcctcctt ntctatnata 420
ccancacggt tct                                                   433
```

```
<210> 27
<211> 586
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1413644T6

<220>
<221> unsure
<222> 558, 563
<223> a, t, c, g, or other
```

```
<400> 27
ctaaaatcac acacaaaggc aaatcatgag gaaacgttaa atatttcaaa atgcccacga 60
ggcgtgccag aaacagtgct gtatctatag cacagaatcg ttggaggcca aagctaaagc 120
agtaggggct actgcaactt ctagctcttt actgctgctt ttttgtttgt ttgatagagg 180
gggattcagg tgaggggggtt cggtctctca ggaagttagg ccataatttc tgcaggttca 240
gtgattaact tggatccatc ccatgctgtc ttgaactgtt caggaatggg aaattctcta 300
taatcaccat cctgagggat aagtatgttc atttcagatg acttggcgct cacgatctca 360
cagtctaatg catcttcact gaggtatatg tggcaacctt ctgtcttatt aatggaaatt 420
gttggcactc tccccattac ctggatttga atgtcctggg agttgatcac ttccacaatg 480
cccaccacat tgtcaaacac cagggccgag tttcttacag tttgtcaatt ataatggagt 540
ttactttccc tttttatcnga atngttgatt tttcgcattt gaaaat          586
```

```
<210> 28
<211> 144
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1538224H1
```

```
<400> 28
gccttggcaa aaaggcgacg cttcttgggc cgcatcgtag ctcgtaacag ccgcaagatg 60
gcctttcgcg ccaaatccaa gtcctgccac gacctctcgg ttctctaggt cccacccgct 120
cccactatgg tgggagacga acgg                                       144
```

```
<210> 29
<211> 249
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2623268H1
```

```
<400> 29
tcagaatggg aagaatgaga gaagtcatat gcccggcaca tatttgacta cagtcattcc 60
ttatgagaaa aaaaacggac caccgtctgt tgaagatctt caaatattaa caaaaattct 120
tcgtgccatg aaggaggaca gtgaaaaagt tccgagcttg ttaactgatt atattctgaa 180
agttctgtgt cctacataga gcagcaactt tatctgcggt gggctccaag ctagatttcc 240
gacagcatt                                                        249
```

```
<210> 30
```

<211> 257
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1665533H1

<400> 30
caagctggag ctgcggactg agccaggctt ccactgggtg attgccgatg gggaggacac 60
cacagtgcgg gccagcaccc actgcaccta tgaccgcgtc gtgctgcacg gggagcgctg 120
ccggagtctg ctgcacactg cggctgcctt tgacttcccc acgagcttcc agctcaccga 180
ggaggaggcc ctcaacatca gtgaccacta ccccgtggag gtggagctga agctgagcca 240
ggcgcacagg tccagcc   257

<210> 31
<211> 620
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 981484T6

<220>
<221> unsure
<222> 91-92, 410, 557, 567
<223> a, t, c, g, or other

<400> 31
tcctcgcaca ttttatatac atcattccac atttaaaata tattcaggtt tacgtaaaaa 60
aagaaagtgt taaactattt acaaaaatac nntaaatacc cctaacatta aatgcaactt 120
tcccacttta gacaggaatg aacttctttt gaacatggca caaaaggatc accgtaataa 180
aagttaatat agtataaaac caaccaaaca aaaacaaaat gaggctagac ctaagccact 240
cgcagttcca aaaaaataaa agcccaaagc cgaaaggcgt tttcatttga gcatgcacaa 300
cagatttcgc aatttttcgca acgtttcttt gtgaatgtgt ctccttccct ttcagcaact 360
tttcggtctg gggtcctaaa tgttaatgta atgtgaccta atctaaaggn ttaggccagg 420
aagggtcggt gggatcttcc tgctgcgtgg agaaggctca agcgcaggct cagttacttc 480
tccaccactt cctccacgca ggggagtttg cgttcctccg aggaaatact gtccacgatg 540
gaagaaaggc atcgaangct actcgangct gacgatcaat acttgctcct ccttccttag 600
ccggtatcac gagccccctg   620

<210> 32
<211> 235
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 973629H1

<220>
<221> unsure
<222> 85
<223> a, t, c, g, or other

<400> 32
tgcggctgcg gctgccccag ccccggcacc ggcacctgca cctgcccctg ccccagccaa 60
acccaaagaa gaaaaaattg acctntctgc cattaagatc gagttctcta aggaacagca 120
ggatgaattc aaggaggcat ttctcctgtt tgacagaaca ggtgattcca agatcaactt 180
aagccaggtc ggtgatgtct cgagctctg ggcacaaatt ccaccaatgc agagg   235

<210> 33
<211> 399
<212> DNA
<213> Homo sapiens

```
<220>
<221> misc_feature
<223> Incyte ID No: 1539638T6

<400> 33
ggcctcctgg tggctggaac gtgctttcgc ctgcggggcc cagtgtccgg accccactgg 60
atctgcagca ctcagacgct taggatgtgt ttcaagaagg cctcgtagtt gatgcagccg 120
ttgctgtcct cgtgtcctgc cagaacggtc tccacctcct cctcagtcat cttctctcca 180
agggtggtga gaacatgtct gagctctgct cccatgactt tgccgttccc ctccttgtca 240
aacacacgaa acccctccaa gtagtcctca tatgtgcctt ggcctcggtt cttggccact 300
gcctggagca tgggcaggaa agtctcaaag tccacacgcc gcgacttcag tcatcactct 360
tggggttccc aggaccttga gacctcggcg ttggtggggg                       399
```

```
<210> 34
<211> 474
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<223> Incyte ID No: 3015758T6
```

```
<220>
<221> unsure
<222> 116, 141, 143, 162, 164, 182, 196, 280, 299, 301, 319-320, 326, 338,
340, 446-447, 467
<223> a, t, c, g, or other
```

```
<400> 34
acacagtcct gggaggttgg ggattggggt caggactcca ccaccaattg tcttggcagg 60
taggggacag gtctcactgc ggcactcgga cctccagctt gcactcagcc agcgcntcgc 120
ccagctcgtt gacggcccgg nangtgtaag tcccagcgtc gnanggcgac gggcgacgga 180
tnttcagcgt caggantcct tggtaattgg ttatcaggaa cttgggatct tcatggattt 240
ccatcttgtg cttcatccaa accaccttcg gcttcgggtn gcctctgaca gcgcagttna 300
nggctggcga gtacccagnn acgacnacgc ggtctatnan aggtgtcagg aacttgggaa 360
ccatccggaa gtcatgctcc ttatactcga acggtttgaa ggtgattcct gtcttgagga 420
tgcgggccgt gttcttggag acaccnngtg agtcactgag cccacanatg ttct       474
```

```
<210> 35
<211> 254
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<223> Incyte ID No: 2832314H1
```

```
<220>
<221> unsure
<222> 156
<223> a, t, c, g, or other
```

```
<400> 35
agggaagaag atcaacgcct cactgaaaca tggctgtgtt tgcagcctgc tctagtggga 60
cagcccagag cctggctgcc catcatgtgg ccccacccaa tcaagggaag aaggaggaat 120
gctggactgg aggcccctgg agccagatgg caaganggtg acagcttcct ttcctgtgtg 180
tactctgtcc agttccttta gaaaaaatgg atgcccagag gactcccaac cctggcttgg 240
ggtcaagaaa cagc                                                   254
```

```
<210> 36
<211> 477
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<223> Incyte ID No: 1702996F6
```

```
<220>
<221> unsure
<222> 389
<223> a, t, c, g, or other

<400> 36
ggagcccggg aagaaactca tcagaaggag ataaaggctc tgtataccgc cacggaaaag 60
ctttccaaag agaacgagtc attgaaaagc aagctggagc atgccaacaa agagaactca 120
gatgtgatag ctctatggaa gtccaaactg gagactgcca tcgcatccca ccagcaggcg 180
atggaagaac tgaaggtatc tttcagcaaa gggcttggaa cagagacggc agaatttgct 240
gaactaaaaa cacaaataga gaaaatgaga ctagattacc aacacgaaat agaaaatttg 300
cagaatcaac aagactctga acgggctgcc catgctaaag agatggaagc cttgagggct 360
aaactgatga aagttattaa agaaaaggna aacagtctgg aagccatcag gtcgaaactg 420
gacaaagcag aagaccagca tctcgtagaa atggaagaca cgttaaacaa attacag    477
```

```
<210> 37
<211> 242
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<223> Incyte ID No: 839947H1
```

```
<220>
<221> unsure
<222> 117, 189
<223> a, t, c, g, or other
```

```
<400> 37
gaagcaagca cctccctcac cccctccaaa gaaggaggaa gctggaggcg aattctgggg 60
agaactggag gtgcagaggg tgaagttcct gaactacctg tcccggaact tttacancct 120
gcggttcctt gccctcttct tggcatttgc catcaacttc atcttgctgt tttataaggt 180
cttagactnt ccaccagggg aggacgacat ggaaggctca gctgctgggg atgtgtcagg 240
tg                                                                 242
```

```
<210> 38
<211> 286
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<223> Incyte ID No: 1867522H1
```

```
<400> 38
aaggagttgg agctcaagtt ggagacagcg aggagaaacc tgccatagcc agggtgtgtc 60
tttgatcctc ttcaggaggt gaggagaagc cagaggtcct tggtgtgccc tcagaaatct 120
gcctgcagtt ctcaccaagc cgctgtgaaa atggggataa acacccggga gctgtttctc 180
aacttcacta ttgtcttgat tacggttatt cttatgtggc tccttgtgag gtcctatcag 240
tactgagagg ccatgccatg gtcctgggat tgactgagat gctccg             286
```

```
<210> 39
<211> 272
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<223> Incyte ID No: 1987831H1
```

```
<220>
<221> unsure
<222> 233, 269-270
<223> a, t, c, g, or other
```

```
<400> 39
```

```
tttaattatg aatgcatat  atttccag gcaggctctc ttacttgaac a aaatccaa 60
aaactaattt agagtctttt ttgcccagat cttttaagac ttacacccca gagatttaag 120
aagaaaacct ctaaatttca aaattatgaa gaattacaga attactcatt taaggtactt 180
taaaagaagt ttgtacattg tcaaagtaaa ttttaattca aatcatgtct gtnaaacttg 240
acgtattttg tgtatgcatg tttttcattnn gc                             272
```

<210> 40
<211> 263
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2639708H1

<400> 40
```
ggccagccca gctccacgag gactgaacaa ggtgctgtct cactgccacc atgccggaag 60
tcgagagaaa acccaagatc actgcctccc gcaaactctt gctgaagagc ctgatgctgg 120
ccaaggccaa ggaatgctgg gagcaggagc acgaggagcg cgaggctgag aaggtgcgct 180
acctggcaga gcgcatcccc acgctgcaga cccgtggcct gtccctcagt gccctgcagg 240
acctgtgccg ggagctgcac gcc                                        263
```

<210> 41
<211> 449
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 973815T6

<220>
<221> unsure
<222> 308, 446
<223> a, t, c, g, or other

<400> 41
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cactcccagg cttcccaggt gccactgtcc ggggcggcat cctcacttcc agcggcctcc 60
aacgcggccc ttccctgccc ccttccggaa cttctgggcg tggctgatgc ggttgtacag 120
cacgttgatc tcatatttct gctgtttcag cttcgccatc aggtcgaact tctcagactc 180
cagctggtgg atccagtccg acagctcctg ggctttctcc cggagctgtt cctcccccat 240
gtagtcaatg tccagaggct tcttacgctc ggagaggatg cgcaccttca tctcccgccc 300
cgtctgcngc ttaccacgct tctgttctgc cttgaccagg tagccgccaa aatgggcccc 360
catgttggac agcaccttct ttttcttggc atcatcctct gcccgcttct tggcctcttc 420
ctcttccttc ctcatcttct ctccgncag                                  449
```

<210> 42
<211> 408
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2079906T6

<220>
<221> unsure
<222> 267-268, 279, 284, 287, 290, 295, 297, 299, 305, 312, 318, 333, 338-
339, 344, 351, 353, 356, 360-362, 364, 366, 378, 397
<223> a, t, c, g, or other

<400> 42
```
gagacagaag gttttcatat aaatgcaagt ttgacaaagt cagcatcttt ctagctgtct 60
aaggaagagt cacttgtaac acagccagcc aggaggctgc tttgttttttt attataaaga 120
acactaacac aaatgcagca tgattgctgt aaaataaatg tgaaatttgt acaaaagtcc 180
cagtccttcc gcagttctag gtttacagtc aggctcaacc ttacttgccc cgctcctgca 240
tgaaaacaag tgcgttttat acagccnngg ccacccagng gcanagnttn aggcncnana 300
```

taganttaaa antaaggnt●ttccgagc agncacanna attngaaccc ●●nggngacn 360
nntngnccac agaggggnaa taaaaagacc agttttnaag taagagga   408

<210> 43
<211> 547
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2852042T6

<400> 43
ggtacagccc atgcctgcag cccttttcagt gggtggctcc agatagtgtt gtcctttcag 60
ttgctgggag cggtgaggcc cagccctttc cccttcctcc caccactatt cctaacctgg 120
ggcctggcag gggtggagtg atgtgatcta agggtccctg gagaagggtg gagtggaaga 180
ggcagggtct tgggttaaag ggaagattct gaggtctcag ggcaaaggga aaggtgtttg 240
gatgaagact gaggcagtgc ctacctccct ccacatctga ggatcaagca ggtgtggcaa 300
gaacagagcc ctggcctggg ctctgctggc cgcagcctca ggagccaggg ttaaggccag 360
agataaatga agatttgagc cattgataaa tgccaatata tgtttcaggt atttcattag 420
gatcctccca tcaagcaggg aactagatgt ttgagaagat caaacaacat cctgactttg 480
ggggccttaa gacctggggt attctcctcc cagtcctagt gggaggctat ccattcccac 540
aaagact   547

<210> 44
<211> 335
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2368282T6

<220>
<221> unsure
<222> 305
<223> a, t, c, g, or other

<400> 44
aagaggagtg gcccagctga gctgaggaag gtgaccactg agaacccatt caacctgctg 60
agcaggctgg gcagaaagga gcaggacttg ggacagacga ctgaagatgc agagacccca 120
tgggcccac ccctgggcct tcctcccatg tggctgcagg ccatcctctc tgatcactgc 180
tgggttgctt cctggttaaa gggccagaag gtgaaggaga tgggcttttc aggcatcaga 240
atgaggttga atgtggtgcc cacatcgctg aggtgttgga tttcaactct gaagttctcc 300
aagcntattg atgaggaaga tggtcatctc tagct   335

<210> 45
<211> 433
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2831248T6

<220>
<221> unsure
<222> 110
<223> a, t, c, g, or other

<400> 45
gatacacaag cttcattccc atctataatt ttatctggta ccattattca atttagatat 60
attgcatagg atgtgccaac aatcactttt ataaccattc catgattttn cttgggtaat 120
cccttttaat ggtgaacttc aggtcacaac agtaactatc agttcaacta caccaaggtt 180
tccgaagaca atggcttctc cacccaagca ggttgtatat aaattccaaa tagaacctgg 240
catcaccctg aaggaattct aacttcacac tgttggggaa atttaccaag atggcttaag 300
agtagactaa ctttacacag cacattaaaa aaaagacatt tattcagcgt cacgatcaga 360

ctgttacatt tagcaatc.   .agcatgggg tgcaaaaaaa aaaatctaca .caaaaccct 420
ttgttggaat gct   433

<210> 46
<211> 538
<212> ·DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 182802T6

<400> 46
gtgaaggaat ggaagattaa aaagaaagga aatcctttct catttaagag tagaaatgga 60
gctctagtag tcaaaacgac cctcaagtta aaagagtccc taaattgttc agaatcagct 120
actgagattt ggtaacagca aaccacatgg tctttcctct ggtatatgat taggacagaa 180
accttcttgt tgggccaatg actgcgcagg ttttgatgac atgaggaata caataagttg 240
gccattgtat gaaagggagg cagcaggacc tgagcttgtg cccttgtcac tttctgtatg 300
aggccaggag ggtggagctt gatgacatct cctaacaata cccacatgca catctctgta 360
atccttaaat cactgagtct tggacttcag gttctccttg tgccggtcca caagggaacc 420
aacccactcc accgttttct gcttggcttc ctcccagctg tagagtggct tatacgccag 480
atctcgctga gccttcttat aagagaaggt gaatacgcta tttgacaatg tgactatg   538

<210> 47
<211> 219
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1003884H1

<400> 47
gacctgtgga acacccccag gggcctcctg ttccgagact gaatgtggcg ggccaaactg 60
cagaactgac gaaggagaga ggaagtgtgg ggggcctggc tgtggtggtc tggttactgt 120
tgcacacaac gcctggcaga aagccatgga cttggaccaa gatgtcctga gtgccctggc 180
tgaagtggaa cagctctcca agatggtctc tgaagcaaa   219

<210> 48
<211> 279
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 001120H1

<400> 48
tctcttggta aatacggcat catctgcatg gaggatttga ttcatgagat ctatactgtt 60
ggaaaacgct tcaaagaggc aaataacttc ctgtggccct tcaaattgtc ttctccacga 120
ggtggaatga agaaaaagac cacccatttt gtagaaggtg gagatgctgg caacagggag 180
gaccagatca acaggcttat tagaagaatg aactaaggtg tctaccatga ttatttttct 240
aagctggttg gttaataaac agtacctgct ctcaaattg   279

<210> 49
<211> 230
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1285380H1

<400> 49
ttttcacatt tgattatgaa aatctccaaa catatgcaca agcagagatc atggtataat 60
aaatcccttt gcaactccac tcagccctga caacccatcc acacacggcc aggcctgttt 120
atctacactg ctgcccactc ctctctccag ctccacatgc tgtacctgga tcattctgaa 180

gcaaattccg agcattaca⬤atttttgtcc ataaatattt ctaacatcct   230

<210> 50
<211> 199
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1636639H1

<220>
<221> unsure
<222> 153, 165, 179-180, 184, 195
<223> a, t, c, g, or other

<400> 50
cgacagggat ctgggcccca acaccaccat caaactctcc taggccatgc caagacccag 60
gacataggac ggacccctgg tacccagaag aggagttctt gctcactaac ccggatccgc 120
ctcgtgcccc tgcctcctgg agcttcccat tcnaggagaa aaggntccat ttcccagcnn 180
ttcnttgccc ctganattt   199

<210> 51
<211> 240
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1985870H1

<220>
<221> unsure
<222> 106, 111, 118
<223> a, t, c, g, or other

<400> 51
tggccctttc gtccgtggcc agagcttctc agtgtggatc ttgtgtgaaa gtcactgcct 60
caaggtggcc gtggatggtc agcaactgtt tgaatactac catccnctga ngaactgncc 120
aacaatcaac agactggaat gggggggcgac atccagctga cccatgtgca gacataggcg 180
gcttcctggg cctggggcgg gggtggggtg tggggcagtc tgggtcctct catcatcccc 240

<210> 52
<211> 402
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1677936T6

<400> 52
aaagaagcac tgcatgtcaa acattatgaa aatactatgt atgagagaat aaagtatttt 60
ggaaaaacaa acggataatt ctttaaatcc agaactactt tttatcttct gatatcatag 120
aaacaatgtc attgtaaact tcttgagggg catccattgc ccagataaag tccaagtgat 180
tgtaaaaagg aatctccttg tggtaaataa gattggggag ttttggaagc aaaaggccaa 240
catcttgggg gtcagccaac aggtccttgc caccgttcca cactgcaatt ggtacattca 300
tggctgtcac attgtagtag ggaggttggg actgatcata gtgcatccta ttctgaactg 360
ggcttcccca gtcataagct tggaatttcc cagacttaac ag   402

<210> 53
<211> 171
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<223> Incyte ID No: ●＿612H1

<400> 53
gaccagcgag gacagtctcc atcacctacg gcaccggcag catgacaggc atcctcggat 60
acgacactgt ccaggttgga ggcatctctg acaccaatca gatcttcggc ctgagcgaga 120
cggaacctgg ctccttcctg tattatgctc ccttcgatgg catcctgggg c   171

<210> 54
<211> 263
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2594407H1

<400> 54
gcagaactca gagctgctct tcctctgtgg ccagttgggg accagcatca tgaagtggat 60
ggtggtggtc ttggtctgcc tccagctctt ggaggcagca gtggtcaaag tgcccctgaa 120
gaaatttaag tctatccgtg agaccatgaa ggagaagggc ttgctggggg agttcctgag 180
gacccacaag tatgatcctg cttggaagta ccgctttggt gacctcagcg tgacctacga 240
gcccatggcc tacatggatg ctg   263

<210> 55
<211> 105
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 963536H1

<400> 55
ggggtcgcct ttggagcaga gaggaggcaa tggccaccat ggagaacaag gtgatctgcg 60
ccctggtcct ggtgtccatg ctggccctcg gcaccctggc cgagg   105

<210> 56
<211> 242
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 434377H1

<220>
<221> unsure
<222> 29, 60, 72, 84, 86, 144, 159, 162, 179
<223> a, t, c, g, or other

<400> 56
gcaaaactgg acaatgtcca aacccactna tgactgcatg acggagccga gccatgtgtn 60
tttacaactc gntgttgtca catntnaggg aactgaccct caggcacaac ttgcagaagg 120
caaggccctg ccctgcccaa cctntgtggt cacccatgna tnttccactg gaacgtttna 180
ctgcaaacac aacttggaga agtggcatca gtcaacagag aggggcaggg aaggagacaa 240
ca   242

<210> 57
<211> 255
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2121863F6

<400> 57

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agacgctgac ctctgggggc cacgctgagc acgaaggcaa accctactgc aaccacccct 60
gctacgcagc catgtttggg cctaaaggct ttgggcgggg cggagcgaga gccacacttt 120
caagtaaacc aggtggtgga gaccccatcc ttggctgctt gcagggccac tgtccaggca 180
aatgccaggc cttgtcccca gatgcccagg gctcccttgt tgcccctaat gctctcagta 240
aacctgaaca cttgg                                                 255
```

<210> 58
<211> 318
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1597231T6

<220>
<221> unsure
<222> 287
<223> a, t, c, g, or other

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<400> 58
aaccacttaa agctcaccat ttcttttgat tcttacaaga actttcttta tggaaggaaa 60
cattatcctc ttttcatctc ctagataaaa aggtaaatta tttagcatat aaatgatttt 120
cccaaggcta attcggacga gacagtagag ctgggatttg gatctagttt tctctgagtc 180
aaattcctct gatctttctt gaaagtcact ttcattttgt cccaacacat ctgagcagac 240
accagtggtt tcagaacacg tgccatgtct tcttactttc cttgccncct ttctttctta 300
acaatattac acctgagg                                              318
```

<210> 59
<211> 154
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4174437H1

<220>
<221> unsure
<222> 36
<223> a, t, c, g, or other

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<400> 59
tgcaggtgac cccagccatg aggaccatcg ccatcnttgc tggccattct cctggtgggc 60
cctgcaggcc cagggtgagt cacttccagg aaagagctga tgagggtaca acccagaagc 120
agtctgggga agacaaccag gaccttgcta tttc                            154
```

<210> 60
<211> 294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2182901H1

<220>
<221> unsure
<222> 239, 244, 256, 267, 270
<223> a, t, c, g, or other

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<400> 60
cagcgaccct agccatgaga accctcacca tcctcactgc tgttctcctc gtggccctcc 60
aggccaaggc tgagccactc caagctgagg atgatccact gcaggcaaaa gcttatgagg 120
ctgatgccca ggagcagcgt ggggcaaatg accaggactt tgccgtctcc tttgcagagg 180
atgcaagctc aagtcttaga gctttgggct caacaagggc tttcattgcc attgcagang 240
gtcntgttat tcaacngaat attctanggn actgcatgtc atgggaaaaa ccaa       294
```

```
<210> 61
<211> 408
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1747979T6

<220>
<221> unsure
<222> 12, 34, 69, 87, 97, 102, 131-132, 136, 151, 246, 250-252, 254-256,
262, 281, 297, 327, 350, 353, 356, 358-359, 367, 372
<223> a, t, c, g, or other

<400> 61
tattcagatg angcactttc aatgtatgtg tttnggggtg tgtgtatgtg tgtgcgcatg   60
gggaacagng aggtggtgca ggataanaaa tactgtnagg gngaaggaac actcccccaa  120
gctggcagga nnatgnggca gcaatgtaca nagcctcggg agtagagtcc agggacaggg  180
aggtgggttc aaggctggct tggaggccaa gggtgtcccc cttagctcaa gaagccacag  240
aaattngtgn nncnnngggg tnggcccatg agcatgggca nctggttctt gtgggtnatc  300
ttgattgtac agggcgtctg catccanggt tctccgtcaa tttgcatggn aanggntnnt  360
gtggtgngga angtgatctc agagcacttg gccagccgac gtccagca               408

<210> 62
<211> 210
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1630553H1

<400> 62
gatttcttca cctccctggg gctgctgccc gtgcctcctg agttctggaa caagtcgatg   60
ctggagaagc caaccgacgg gcgggaggtg gtctgccacg cctcggcctg ggacttctac  120
aacggcaagg acttccggat caagcagtgc accaccgtga acttggagga cctggtggtg  180
gcccaccacg aaatgggcca catccagtat                                    210

<210> 63
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 478960H1

<220>
<221> unsure
<222> 3, 21, 33, 67, 151, 162, 165, 262, 295
<223> a, t, c, g, or other

<400> 63
ttncctgccg gcaaggccat ntgggtcacg ggntggggac acacccagta tggaggcact   60
ggcgcgntga tcctgcaaaa gggtgagatc cgcgtcatca accagaccac ctgcgagaac  120
cttctgccgc agcagatcac ggcgcgcatg ntgtgcgtgg gnttntcagc ggcggcgtgg  180
acttctgcca gggtgatttc gggggacccc tgtccagcgt ggaggcggat gggcggatct  240
ttcagggcgg tgtggtgagc tngggagacg gtgcggtcag aggaacaagc caggng       296

<210> 64
<211> 262
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
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<223> Incyte ID No: ⬤ 2487H1

<400> 64
tgtctctggc tgtctcgagc agtctagaag agtgcatctc cagcctatga aacagctggg 60
tctttggtca taagaagtaa agatttgaag acagaaggaa gaaactcagg agtaagcttc 120
tagccccctt cagcttctac acccttctgc cctctctcca ttgcctgcac cccaccccag 180
ccactcaact cctgcttgtt tttcctttgg ccatgggaag gtttaccagt agaatccttg 240
ctaggttgat gtgggccata ca   262

<210> 65
<211> 281
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2921152H1

<400> 65
catccctctg ctctctggcc tccagcctcc cagcagcatg gctttcaccg gcaagttcga 60
gatggagagt gagaaggaatt atgatgagtt catgaagctc cttgggatct ccagcgatgt 120
aatcgaaaag gcccgcaact tcaagatcgt cacggaggtg cagcaggatg ggcaggactt 180
cacttggtcc cagcactact ccggggggcca caccatgacc aacaagttca tgttggcaag 240
gaaagcaaca tacagaccaa tgggggggcaa gacgttcaag g   281

<210> 66
<211> 234
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1846428H1

<220>
<221> unsure
<222> 216, 222, 225, 229
<223> a, t, c, g, or other

<400> 66
caggaggggt caccgtgcag gatggaaatt tctccttttc tctggagtca gtgaagaagc 60
tcaaagacct ccaggagccc caggagccca gggttgggaa actcaggaac tttgcaccca 120
tccctggtga acctgtggtt cccatcctct gtagcaaccc gaactttcca gaagaactca 180
agcctctctg caaggagccc aatgcccagg agatanttca gnggntggng gaat   234

<210> 67
<211> 258
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2796143H1

<220>
<221> unsure
<222> 3, 27, 43, 57, 64
<223> a, t, c, g, or other

<400> 67
gcngctgagc ctggcccatg gcgcaantgg tggcgggctg aangcggagc cgtggcngtt 60
tctncgcccc tgctgggatc ggctgctccc tcttctgggc gtcctggcgg ccggaccgac 120
aacgcagcaa tccaacgaac ttctgcctgg tgtcgaaggt ggtggggcaa gatgccgggc 180
ctccatgcct aggtggtggt acaatgtcac tgacggatcc tgcccagctg tttgtgtatg 240
ggggctgtga cggaaaca   258

<210> 68

<211> 370
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1805613F6

<220>
<221> unsure
<222> 155
<223> a, t, c, g, or other

<400> 68
gtcaccctgc cctgcaccta ccacacttcc acctccagtc gagagggact tattcaatgg 60
gataagctcc tcctcactca tacggaaagg gtggtcatct ggccgttttc aaacaaaaac 120
tacatccatg gtgagcttta taagaatcgc gtcanatatc caacaatgct gagcagtccg 180
atgcctccat caccattgat cagctgacca tggctgacaa cggcacctac gagtgttctg 240
tctcgctgat gtcagacctg gagggcaaca ccaagtcacg tgtccgcctg ttggtcctcg 300
tgccaccctc caaaccagaa tgcggcatcg agggagagac cataattggg aacaacatcc 360
agctgacctg   370

<210> 69
<211> 235
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1431273H1

<220>
<221> unsure
<222> 20
<223> a, t, c, g, or other

<400> 69
tgacactgac tgggcccatn aggacagtgc tcaggctgga gaagtggatc acaccttgtt 60
gggacaatgc acaggtgccg gctacttcat gcagttcagc accagctcgg ggtccgcgga 120
agaggcagcc ctactggagt ctcggattct ttacccaaag aggaagcagc agtgcctgca 180
attttctat aaaatgacgg gaagtccttc agacagactc gttgtctggg tcagg 235

<210> 70
<211> 279
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1804662H1

<400> 70
ctgtgaccaa gttgactctg aggccctggt gggctgcctg cggggcaaga gtaaagagga 60
gattcttgca attaacaagc ctttcaagat gatccccgga gtggtggatg gggtcttcct 120
gcccaggcac ccccaggagc tgctggcctc tgccgacttt cagcctgtcc ctagcattgt 180
tggtgtcaac aacaatgaat tcggctggct catccccaag gtcatgagga tctatgatac 240
ccagaaggaa atggacagag aggcctccca ggctgctct 279

<210> 71
<211> 269
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2921194H1

<220>
<221> unsure
<222> 265
<223> a, t, c, g, or other

<400> 71
gcacctcctc gccagcagcc gtccggagcc agccaacgag cggaaaatgg cagacaattt 60
ttcgctccat gatgcgttat ctgggtctgg aaacccaaac cctcaaggat ggcctggcgc 120
atggggggaac cagcctgctg gggcagggggg ctacccaggg gcttctatcc tggggcctac 180
cccgggcagg cacccccagg ggcttatcct ggacaggcac ctccaggcgc ctaccatgga 240
gcacctggag ttatcccgga gcacntgca   269

<210> 72
<211> 334
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 395368T6

<220>
<221> unsure
<222> 29, 77, 88, 91, 94-95, 102, 105-106, 153-154, 157, 179-180, 182, 187,
211-213, 219, 229, 255, 260, 270, 274, 279, 286, 291, 300-301, 303, 305,
311, 313, 316, 319-321, 323, 332
<223> a, t, c, g, or other

<400> 72
atattttat gtgaaatgtg gttgtatana ttagaaataa gatttacaca tttcaaagca 60
cactactgca aaaatanatt atttttancc nccnnactct cnttnnagct ttgcctgctc 120
agatctcaat ctcaccagta gccctttatg ctnnggntttt ctcaagaccc tcttcttcnn 180
gngagtngac tcttcctttt tcctccccat nnngctgcng acaattttnc attaggttct 240
tacttaggat cactnttacn atcatcttcn gttncatcng atcttncctt ntgtttgccn 300
ntncnttgct nancangcnn ncnccaacta gnac   334

<210> 73
<211> 301
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2182861H1

<220>
<221> unsure
<222> 11, 27, 47, 50, 53, 56, 277, 289, 298
<223> a, t, c, g, or other

<400> 73
cccacccccca ncactgtgca gacgacnacc actcagtgtc tggattncan tgncgngtcc 60
actctccaca cccagcatca tcaggaccac aggcctgagg ccctacccctt cctctgtgct 120
tatctgctgt gtcctgaacg acacctacta cgcaccaggt gaggaggtgt acaacggcac 180
atacggagac acctgttatt tcgtcaactg ctcactgagc tgtacgttgg agttctataa 240
ctggtcctgc ccatccacgc ccttccccaa cacccangcc ctccaagtng gacggccnag 300
g   301

<210> 74
<211> 537
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1806436T6

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<220>
<221> unsure
<222> 420, 423-424, 426-427
<223> a, t, c, g, or other

<400> 74
aaacatttca atacttttg ctacttctat aatctttttag caaggcagtc agttacagtc  60
caaatgggaa aatataaaca aaattacaca ttttatcttt taaaatctac tttaattctg 120
ttataaaatt tataatgcag tttaaactat gatttctctc cacttgatga tgtctctcac 180
tctgttcctt taattacgaa gtctctgaag actctgaact tgactgagga aatgttaaac 240
agatacctct tcataattct gtaagtgttt gcttttaact ttgaataaat gtcatatcta 300
aacaaatatt aaaagtatt taacatctca tacagtcaga gttcactggc gctttgttcc 360
agcctggaca ctgaccattg aaaaatagat gcctttctgt gccagcagct gctgatgcgn 420
gcnngnncct tggactctgg ccattctgaa acaccactat taagtctgca ttctggatgg 480
tggacaggcg gtgagcaatc acaatgcagg tgcggccttc tctgggcttt gtccagg     537

<210> 75
<211> 258
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2922143H1

<400> 75
gtttggccag atttgcccaa cataacaata gataaaactc taacggaaga tgaagctgtt  60
aatgcttcca gagctcatgt agctttccca gatttcttca ggacttccac agcagagtgg 120
tgggccagag aaattgtgga cttttacaat gaaaagatga agtttgatgg tttgtggatt 180
gatatgaatg agccatcaag ttttgtaaat ggaacaacta ctaatcaatg cagaaatgac 240
gaactaaatt atccacct                                                 258

<210> 76
<211> 255
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 876720H1

<400> 76
ccgacaccgg gccttgcgca cagcccccat ccagccccgt gtctgggagc ctgtgcctct  60
ggaggaggtc caattggtgg tggagccaga aggtggagca gtagctcctg gtggaaccgt 120
aaccctgacc tgtgaagtcc ctgcccagcc ctctcctcaa atccactgga tgaaggatgg 180
tgtgcccttg ccccttcccc ccagccctgt gctgatcctc cctgagatag ggcctcagga 240
ccagggaacc tacag                                                    255

<210> 77
<211> 254
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1910091H1

<400> 77
gacgagagga cccgcatcct ggcccccagc ccggactccc tgctccacac acctctgatt  60
atcaaggagc tctccaaggt gtacgagcag cgggtgcccc tcctggccgt ggacaggctc 120
tccctcgcgg tgcagaaagg ggagtgcttc ggcctgctgg gcttcaatgg agccgggaag 180
accacgactt tcaaaatgct gaccgggag gagagcctca cttctgggga tgctttgtcg 240
ggggtcaaaa atca                                                     254

<210> 78
<211> 61
<212> DNA
```

<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2174130T6

<400> 78
atagaagacg ggtagtacct gaagtggttc cacttccttt atttggggtt gtttcatgaa 60
a   61

<210> 79
<211> 247
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2219077H1

<220>
<221> unsure
<222> 231
<223> a, t, c, g, or other

<400> 79
gctgattgga gtcagctgga acataccact gcctctagac taaggccagc agatttagca 60
aatacagact gccccagttc attgaatttt agataaatga aataaatcta taaggttaag 120
tatgtcccca gaactgcatg gaacatgtta atctaaacaa tgatttgttg ttcacctgaa 180
attcaaattt agctgggtgt cctgtatttc atctggcaac cctacttcag ncccaggtgt 240
aaggtac   247

<210> 80
<211> 249
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1965041H1

<220>
<221> unsure
<222> 6-7, 27-28
<223> a, t, c, g, or other

<400> 80
gaaggnngga aagaagggag ggaaacnngg agaaagggaa aaagaagaaa aagagaaaga 60
tgaaaatagg aacaaataaa gacaaacaac attaagggcc atattgtaag atttccatgt 120
taatgatcta atataatcac tcagtgcaac attgagaatt ttttttttaat ggctcaaaaa 180
tggaaactga aagcaagtca tggggaatga atactttggg cagtatcttc cggatgtctt 240
cttagctaa   249

<210> 81
<211> 390
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1649959F6

<220>
<221> unsure
<222> 282
<223> a, t, c, g, or other

<400> 81

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cgctcctcct cgcccgccg    aggtccatc ccggcccagc caccatgtcc  ccacttca 60
gctccccggt attcacctcg cgctcagccg cctggaggcg agtgcggaca tgcaggatgt 120
ggtggaggac ttcaagaata agtacgaaga tgaaattaac cgccgcacag ctgctgagaa 180
tgagtttgtg gtgctgaaga aggatgtgga tgctgcctac atgagcaagg tggagctgga 240
ggccaaggtg gatgccctga atgatgagat caacttcctc angaccctca atgagacgga 300
gttgacagag ctgcagtccc agatctccga cacatctgtg gtgctgtcca tgggacaaac 360
agtcgctccc tggacttgga cggcatcatc                                 390
```

<210> 82
<211> 234
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1222317H1

<400> 82
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aaccctctct cctcagcgct tcttctttct tggtttgatc ctgactgctg tcatggcgtg 60
ccctctggag aaggccctgg atgtgatggt gtccaccttc cacaagtact cgggcaaaga 120
gggtgacaag ttcaagctca acaagtcaga actaaaggag ctgctgaccc gggagctgcc 180
cagcttcttg gggaaaagga cagatgaagc tgctttccag aagctgatga gcaa        234
```

<210> 83
<211> 314
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2510171H1

<220>
<221> unsure
<222> 48
<223> a, t, c, g, or other

<400> 83
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atgaagtcca gcggcctctt ccccttcctg gtgctgcttg ccctgggnac tctggcacct 60
tgggctgtgg aaggctctgg aaagtccttc aaagctggag tctgtcctcc taagaaatct 120
gcccagtgcc ttagatacaa gaaacctgag tgccagagtg actggcagtg tccagggaag 180
aagagatgtt gtcctgacac ttgtggcatc aaatgcctgg atcctgttga caccccaaac 240
ccaacaagga ggaagcctgg gaagtgccca gtgacttatg gccaatgttt gatgcttaac 300
ccccccaatt tctg                                                   314
```

<210> 84
<211> 215
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1988674H1

<400> 84
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gtgggagccg atgacctatg ccaagagtgt gaggacatcg tccacatcct taacaagatg 60
gccaaggagg ccattttcca ggacacgatg aggaagttcc tggagcagga gtgcaacgtc 120
ctccccttga agctgctcat gccccagtgc aaccaagtgc ttgacgacta cttcccccctg 180
gtcatcgact acttccagaa ccagactgac tcaaa                            215
```

<210> 85
<211> 120
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<223> Incyte ID No: ●2640H1

<400> 85
ggcctccgcg tggcccagtg ctcccagaag ccctgtgagg acagctgtcg gtcgggcttc 60
acttacgttc tgcatgaagg cgagtgctgt ggaaggtgcc tgccatctgc ctgtgaggtg 120

<210> 86
<211> 207
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1926543H1

<400> 86
tggacatctt cgagatcaat gaggcctttg caagccaggc tgcctactgt gtggagaagc 60
tacgactccc ccctgagaag gtgaacccc tggggggtgc agtggcctta gggcacccac 120
tgggctgcac tggggcacga caggtcatca cgctgctcaa tgagctgaag cgccgtggga 180
agagggcata cggagtggtg tccatgt   207

<210> 87
<211> 477
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1504934T6

<220>
<221> unsure
<222> 13, 234, 251, 289, 426
<223> a, t, c, g, or other

<400> 87
gctcatggcc tgngggactg cagctcattt ggaaggcact gggtttgcg cccaagtgga 60
ctgtttccag gaggtgccac tggagggaaa agggctgcct ggggccaggg aggctgcctg 120
gttctgcctc ccgggctggg tcagtggctt tcctgtcccc aggcctggag gaccttgcag 180
ggtctgtttg ctcctgatcc ctcagggtgg gcatgggaca ggtgtgtgcc agtnccagct 240
gtgtgccagt nggcaggtca cagcttcttc ttggggcagt gctgcaggnc cgccctcagg 300
gcctccgtca cgcggtccac attctcgcgg gtggcattgc agcccagcag ccgatccgc 360
agcaccttcc ccgtggaggg cccaaggcca cccatgatct caatgtcgaa gtggtccatg 420
acgtanctga cgatgtctct ccagtcatag ccagcgggta cagccacagt ggtgact   477

<210> 88
<211> 530
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2512879T6

<220>
<221> unsure
<222> 188, 463
<223> a, t, c, g, or other

<400> 88
agctgatgtt caacacttta tttagttctc atttggattt taaacatttg cttgaaaaat 60
aattttacat caatttccat ttctttggaa agcccccaaa tgtaatttat tgataaaatc 120
tgtgatgagc agaattaatg atatttccca gctgttgctc cagatcatgt agggtagagg 180
aggctganga ctgccacaag ggaaaacatc tgtattgtct caaaacatca gaatggtacg 240
gatactttc ccagagtgaa gcaggtcaaa tccttcattt attttttcaa aaggtaaaac 300
atgggttatt aatgcatcca atgaaaactt cttagccata aaatcagcca caagtttttgg 360
gacacattct ttactttaa agccaccaag aatagctccc ttccaggtac gtccagtcag 420

tagcagcata gggttcatt⬤agaggtttgg gatcaggagg tancccctacg a⬤gacacttg 480
tgccacatgc ctcatgacac ataccaggga agccatcatg gtgtcagccg   530

<210> 89
<211> 360
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1359832T6

<220>
<221> unsure
<222> 134, 172, 288, 298, 319, 321, 327-328, 359
<223> a, t, c, g, or other

<400> 89
atatgaaata gaatgtagat attgcaacaa tagcattttt ggagacagct acctccttta 60
ccaggaataa tctttgcatg tcacatttag agataaagct caaaatgcaa atccttcccc 120
tgagagtggg aaancattaa caaatgagag tgggaaaagc attaacaaag cnttaacaca 180
ggtctttaca tattcaaaat attaaactaa tgctaggatt atagacttga ttttaagaca 240
tggtagttaa tagaaaagtt ctagattgaa aacaattttg caaaaatnta catttgtnta 300
tgtgtatata tgtatgtgna natatanntc tactagggaa atatagtgct taagggtgnt 360

<210> 90
<211> 597
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1583076T6

<220>
<221> unsure
<222> 201, 260
<223> a, t, c, g, or other

<400> 90
gttgatgttc aacactttat ttagttctca tttggatttt aaacatttgc ttgacaaata 60
atttcccatc aatttccatt tctttggaaa gctcccacgt gtaatttatt tttaacatct 120
ctgaagagca gaattaatga tatttcctag ctgttgctcc agatcatgta gggtagagga 180
ggctgaaaac tgctacaagg naaggcatct gtattgtttc aaaacgtcag gacggtacgg 240
atactctttc cagagcgaan aggtcaaatc cttcatttat tttttcaaaa ggtaaaatat 300
ttgttattaa tgcatccagt gaaaacttct tagccataaa gtcagccaca agtttgggga 360
cagattcttt actcttaaag cctccaaaaa tagctccttt ccacgtgcgt ccagtcagta 420
gcagcatagg gtttattgag aggttctggg aatcaggagg taccccctaca atgacacttg 480
tgccacatgc ctcatgacaa cataacaggg aagccatcat ggtgtcaagc cgaccgatga 540
cttcaaacga aaaatccaca cctccatcag tcatttcctt tagcacttcc tgaatgg   597

<210> 91
<211> 359
<212> DNA
<213> Homo sapiens ·

<220>
<221> misc_feature
<223> Incyte ID No: 139838H1

<220>
<221> unsure
<222> 5, 13, 17, 23, 34, 38, 44, 68, 89, 159, 161, 310, 346, 357
<223> a, t, c, g, or other

<400> 91
cacgngggaa agncagncct ggnctataca accncagntg gggnatcatg tactttcatt 60

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ggagtagntg ctggtagcaa aggattgant gtttttccag aggagctaat aatcggccgt 120
actataaatg gaacattctt tggtggttgg aaaagtgtng nttctatccc aaagctggtc 180
actgactata agattaagaa attcaatctg gatgcactgg tgacccatac cctgcctttt 240
gacaaaatca gtgaggcatt tgacctaatg aaccaaggaa aaagcatccg aacaatcctc 300
atcttttgan gatgccagga gcaattcgga atactatctg attgantgtg aacctgnct  359
```

<210> 92
<211> 249
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1344654H1

<400> 92
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ggagggcagg catcggggag ccgggagcct gaccctcatc tttcttccaa acaggctcag 60
agggtgtcct gcaccggggc ctgggcagga gggaggtgct tctagttctg ccaggagaca 120
ggttagctgc tccccacgtc agctgggaca ccccgacttt tgtttaccag agaaaaaggg 180
aggggagag ggctgccttt ggacttgtcc cgggacacct aggctagggt ggggagagac 240
gggccctgg                                                          249
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<210> 93
<211> 254
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2513979T6

<400> 93
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gacaggagct ctaggactgg ccagtgggtg ttctagaggc cagctggggt tggaagacaa 60
tggtctggac acttcactgg gtggcaggct gtgttccaag ttccacgaaa tagctcaaga 120
agttaaccag ttccgttcca gccttcttga tcaggggtgt cagctgctcc tttgactttt 180
caaagtaaga cttggcctcg gcctgaagct ctggggctct tgaccttctc catcaggtcc 240
ttgccatagt cagt                                                    254
```

<210> 94
<211> 142
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2369312H1

<400> 94
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agaaactcaa gattgactca tgaggacctg aagggtgaca tcccaggagg ggcctctgaa 60
atttcccaca ccccagcgcc tgtgctgagg actccctcca tgtggcccca ggtgccacca 120
ataaaaatcc tacagaaaat tc                                           142
```

<210> 95
<211> 264
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2048364H1

<220>
<221> unsure
<222> 257, 260
<223> a, t, c, g, or other

<400> 95

ctgccagagt ctggtctctg gacactatgg gcacacgact cctcccagct ctgtttcttg 60
tcctcctggt attgggattt gaggtccagg ggaccaacag ccccagcaag atgagatgcc 120
tagcccgacc ttcctcaccc aggtgaagga atctctctcc agttactggg agtcagcaaa 180
gacagccgcc cagaacctgt acgagaagac atacctgccc gctgtagatg agaaactcag 240
ggacttgtac agcaaanttn tttt   264

<210> 96
<211> 285
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 085246H1

<220>
<221> unsure
<222> 15, 18-19, 33, 36, 39, 46, 67, 105, 125, 140, 204, 207, 229, 232,
272, 274
<223> a, t, c, g, or other

<400> 96
ctcatccaca atganttnnc cagtgctcat ctngtnctng agtttnctct gccatgtggc 60
tattgcngga cggatggtcc gttaaaaaca ttctatgagc caggngaaga gattacgtat 120
tcctncaacg gggctatgtn tccgaggagg gatgagaaag tttatctgcc ctctcacagg 180
actttggccc atcaacactc tganatntac acccagagta tgtcctttng cntgaatctt 240
agaaaatggg agccgtacgc tatacgactt tngnatatcc caaca   285

<210> 97
<211> 418
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 166337T6

<220>
<221> unsure
<222> 45, 96, 129, 270, 277, 300, 307, 322, 333, 353, 364, 366, 373-374,
385, 391, 397, 408
<223> a, t, c, g, or other

<400> 97
gaatgacatg gacacatagt acctttccac atgtggtagc tttgnctcct gattccaaga 60
gtcccactct atgtatgggg gcttatgtaa gtgtgnttat ttttaatgcc agcaaatttt 120
taattggana tcaatgtaca cttctctttc taaggataag tcttttgcca agttagaaaa 180
tataagcttt taaatttcaa aaaagttaga atttccacat cttgaatttt acaccaagag 240
ggaatttgta gagtttatac taattggaan aacattnttc tgaaagaaca agtctttagn 300
aggatanctc tatgcttaag anaatgatta gcnttctaat tatgccatta acnatgagat 360
ttanancgga tgnntccaca tttanttagg ngggttnagg tagtcaanag gcttgtga   418

<210> 98
<211> 566
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 138274T6

<220>
<221> unsure
<222> 539
<223> a, t, c, g, or other

<400> 98

●

●

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acaatgataa cctgcaaact gcagaaagcg ccacgggttt caagctcctc accttcggaa  60
catcaccctg tccttcccct tcccttaaaa tcctagatga aaattcccga gaaagcagaa 120
gaggccccca gatgggcgga ttcccaatcc cggacccctg cggcaggtcg aggcattgaa 180
gaaataaatt aaaggagagg tggctcctgg ctggccttgt ccagctctgt ctcgcagacc 240
cagcggtagg gcctctggca gacgtcgtcg ttccagcggc cgtcgtcggt gaagtgggca 300
cagtcctcgc ctcctccgag cccgtggccg taccagtcgt ccggctgctc cggcctccag 360
ttcttgaagc ccgtctcgta gtccgtcccg tccacccact tccagggccc gttttggtcg 420
tggaggccca tccaggtgtt cacagggcct atgtggtgct ggacaaattt ctgctcctcc 480
caggaacgtg accaccacca ggtgcgcgtc ctccagccgg cagtagttgt cggcgtaanc 540
caaggccttt cccggaagcg agaaga                                      566
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<210> 99
<211> 459
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1633340T6

<400> 99
aatattaagg cataacaaag taaactgaaa tgaagtttag ttatcaatat tcatctctga  60
gaaagttgtg aatcagttcc tttagataac atgtggctca ggttgattta ataatggggc 120
tggggtgtct gcatctctat gctgctttc cagcactgta ctgcctgtag tggaaaagac 180
tcttggagtc caccttgcga gatttctgca cagcttcagc aaaaagtttg gtcacctgaa 240
aattagtgag gagagggatt ccactatcaa cagctgtcct ccgaatcaca taattatcat 300
ggacaaattt agtgttgttg ttgggaaggt taatcactag gtcaatgctg ccatctctaa 360
tcaattttct gatggaagag aggctgggat tctgtccttc ttgagacggc catgccactg 420
gggttgcagg gacattgttg gcgtgagcca gtctgatgt                         459
```

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<210> 100
<211> 83
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1982416H1

<400> 100
cagagagttc tacagttact ccaacattac caggtgaaac tctcacttac gtatggaaaa  60
tcccagaaag atctggagct gga                                          83
```

```
<210> 101
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 946822H1

<220>
<221> unsure
<222> 19, 21, 34, 114, 130, 135, 139, 143, 210, 217, 243, 261, 277, 299
<223> a, t, c, g, or other

<400> 101
gaaaaactgt gaattattna nacggaagct ctgnagcctg dacaacgggg actgtgacca  60
gttctgccac gaggaacaga actctgtggt gtgctcctgc gcccgcgggt acancctggc 120
tgacaacggn aaggnctgna ttnccacagg gccctacccc tgtgggaaac agaccctgga 180
acggaggaag aggtcagtgg cccaggccan cagcagnagc ggggaggccc ctgacagcat 240
ganatggaag ccatatgatg nagccgacct ggacccnacc gagaacccct tcgacctgnt 300
```

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<210> 102
<211> 210
<212> DNA
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<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2517330T6

<220>
<221> unsure
<222> 204
<223> a, t, c, g, or other

<400> 102
cactgtcctc tggggcagcc ggcagaagat cccctgccct gggtggcagg gccctgatct 60
gaggctggtt tcacggagga caggcagcgg gcaccccact ggtggggtcg tctctcgggg 120
cactgacttc tcagcactgg agctgtgtgc cggcctcacc tcctcacttc gtccaggacg 180
tggaactggt ctgcagcctc gcanaagccg   210

<210> 103
<211> 241
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2516489H2

<220>
<221> unsure
<222> 94, 134, 152, 173, 176, 181, 189, 201, 203-204, 224, 229
<223> a, t, c, g, or other

<400> 103
ctgagatcca ccagggtttc cagcacctgc accaactctt tgcaaagtca gacaccagct 60
tagaaatgac tatgggcaat gccttgtttc ttgntggcag cctggagttg ctggagtcat 120
tctcagcaga catnaagcac tactatgagt cngaggtctt ggctatgaat ttncangact 180
ngggaacanc cagcagacag ntnnacagct atgtcaagaa taanacacng ggggaaattt 240
t   241

<210> 104
<211> 228
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 088741H1

<220>
<221> unsure
<222> 49, 98, 126, 185
<223> a, t, c, g, or other

<400> 104
gaaacacctg ccaggaccac agcaacaggc ctttaatttg ctgcaaggnc tggaggactt 60
catagccaag aaggtggagc acaaccagcg cacgtgtntc ccaattcccc acaggacttc 120
atcgantcct ttttcatcca catgcaggag gcaccgagac ggtcagcacc accctgcgct 180
atggnttctt gctgctcatg aagcacccag aggtggaggc caaggtcc   228

<210> 105
<211> 503
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 168865T6

<220>
<221> unsure
<222> 496
<223> a, t, c, g, or other

<400> 105
atctaaatta tcattcatta atcactttttc tgtgttttac agtgataaca tattaaaaag 60
tcagcattag aaaagtatta gcatatgcag caattaatac aagtgttaca gagtatgaat 120
aattgcagat atatttgtgc agtgacctga acaactctcc ttaatggagt ttggatgctt 180
atgggatatt gagtgaatgg gaagatttga tgagaggtca gagaagacat aatagtggga 240
atgtccttga taaaaaaaga gttgcaggtg atagcagatc ggcagccaga tgggctagca 300
ttcttcagac agggatgaag cagatctggt atgagggtgg cagagaaaca atcccttttgg 360
taactgcagt agtattgagg ttctttaaat catcaacaga tttcaggtta aagttctgta 420
aaattgtggt tagaaataaa aatagctcca tgcgggcaag tccttctcct gcacaattcg 480
ttttctgctg agaaangcca tga   503

<210> 106
<211> 390
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 231779H1

<220>
<221> unsure
<222> 9, 294, 310, 376
<223> a, t, c, g, or other

<400> 106
gaatggacnt tcttgcattt gcctctttca agaaaatctt gtgccttgag aacaccagag 60
acctcaaatt actttgtgaa tagaactctg aaatgaagat gggcttcatc caatggactg 120
cataaataac cggggattct gtacatgcat tgagctctct cattgtctgt gtagagtgtt 180
atacttggga atataaagga ggtgaccaaa tcagtgtgag gaggtagatt tggctcctct 240
gcttctcacg ggactatttc caccacccccc agttagcacc attaactcct cctnagctct 300
tgataagggn aatcaaccaa tttctcaata aatttccttc acaaaattta ttaattggaa 360
ataaaggatt attttnaatg gctctaaccc   390

<210> 107
<211> 210
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 234123H1

<220>
<221> unsure
<222> 110, 178
<223> a, t, c, g, or other

<400> 107
attccggccc tgatggtcac ggcggagaag gacttcgtgc tcgttcctca gatgtcccag 60
cacatggagg actggattcc ccacctgaaa aggggacaca ttgaggactn tgggcactgg 120
acacagatgg acaagccaac cgaggtgaat cagatcctca ttaagtggct ggattctnat 180
gcccggaacc caccggtggt ctcaaagatc   210

<210> 108
<211> 441
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1833801T6

<400> 108
cacagtaaca attgaaactg cctcgactaa attttaagtt tctggggcag caccacctga 60
aggcagtgac tgcctttta aaagacaggg ttctgacatt cagagatttc tgtttctcta 120
tccatcattt ttgggcatct tgaatcacct gatttagagt cagtgacatc ctgactggat 180
tggttctgct ctcgctgggc gggtgagacc cccagaccca cgtccacagt gcacctgatg 240
ttctcccagc ggtcgtcact tccccaagga ggccaggtag gcataccaga acagagctgc 300
caggttggcg aagagcaccc ggaacttcag agggacgtag ttgatgttga tgaactgtag 360
tggcgtccac acccgccagt tcatcctcag cgccggccag aagcccccc tcatcttggc 420
ggcgaaggct gaggcgtctt t   441

<210> 109
<211> 336
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1923613T6

<220>
<221> unsure
<222> 198, 315
<223> a, t, c, g, or other

<400> 109
ggatgagcac ggcatggggc ttgaggtgtg tggagggagc tcagcaggcc cagaagcccc 60
cttccaccgg caaagtggaa cccgtggtca tgccacttcg gtcactcagc agaaagagga 120
tggcgttcac cacgtgctct acctcagcaa acttgccaag tgggattcgg ttcagcatag 180
tcttggcctt gtggggggnca ctccaggtgg cctggcccat ggacgtcatc accactgtgg 240
ggtttactgc attcactcgg atcttgtggg gcccgagctc tagggccatc accttggtca 300
gcatgtccag ggcanccttg gtggagcagt agacgc   336

<210> 110
<211> 362
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2058620T6

<220>
<221> unsure
<222> 120
<223> a, t, c, g, or other

<400> 110
ctcacactga aaaaatacta acacagctca tatataaatt acttatctat aagaacaatt 60
atagaaggaa tctaaatggg gcaattttaa caaaccaggc aaaatatcac atatacctgn 120
ggataaggta actccaagcc atgagtataa gattaaggca gttactttat tttgaacaag 180
gaagtggcat aagcaactca gtgtgtgccc cttagggtgg gagctcttcc ccctaccact 240
ccccacccca aggcatcatt ttggagaaaa aagtgtcttc tatctggcta gctgtgttat 300
ctaggattgc accttcttac acggcaggcg cggcatcacg tccagatggg catctaagga 360
ac   362

<210> 111
<211> 162
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1930954F6

<400> 111
aaaatgactg gcgtgatgcc tggaaccaag gtgctgatcc taccacctac tgctaccttc 60
cttagcttca ccctggctag aaataatcac gagggttggg tttgctttgg aaaatgcctg 120

tctctctact tgaatgataa agaattaaat tagatctctc tg   162

<210> 112
<211> 186
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1511658H1

<220>
<221> unsure
<222> 118
<223> a, t, c, g, or other .

<400> 112
ctcgagccgc aaagaagtta ccaaagaagt ggtgacctcc gaagatggtt ctgactgtcc 60
cgaggcaatg gatttaggca cattgtctgg cataggtact ctggatgggt tccgccanag 120
gcaccctgat gaagctgcct tcttcgacac tgcctcaact ggaaaaacat tcccaggttt 180
cttctc   186

<210> 113
<211> 523
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2590673T6

<400> 113
ttcatacatt gtttaaaagg aaaaaggaat catgtcaaaa tgtttcagga aatgatttaa 60
gttagatata aagaacatag ttctgatttt gaagtgttag tggaactcaa acagaaatga 120
ttagtgctct cttaagatca tgacatgatt cttaaagtgg ctatttcaga gcctagaaat 180
aacactgtat tactgactaa tgtctacaga gtactgcaaa agatgctgaa tagaaaagca 240
ggtggtgtga aaattttaat ttttaaatag caaagcccct gtctgggtat tgtcagtaac 300
tttcagaaat cctagagaaa atgatgatta ggtcaacaca aggaaaacag cgattaacag 360
aataggaatt gcaaagagct tcagccaatg gaaaaagaag caaggcttct gaagtctccc 420
gaccactcgt gtctgcatgg gtttcaacga ccggtcccac tgggtcagta tggcatttct 480
ggctcctggc cactgccctg gggccaccag cctaaactgg tag   523

<210> 114
<211> 495
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1995380T6

<400> 114
tataggtttc tcatacgtgc aattctttta tagattcaaa agtgaggtgt tgtgtgaatg 60
ttacaaatca taacatgatc caaatttata agaaagtact ttaaaaatca gacaaaagac 120
ttaagaatta ctatgttaaa tttctaatcc aaatgtaaaa caagaataca ggatattggc 180
aatgctaata ttcaaaatgg gttaccccag ttcataattc ctctgctccc ctcctaccta 240
aaatctaaga aagtattcat tataaattgg aagtacagaa ttcttaaaaa gccaactgga 300
tgttgagttg tatgattttc tttacaggta caatttactt ttcagcaacc tgtaagccat 360
ggaaagagta actccatatc ccaacaaaaa aactcaaagc tctatttggc tggggaaggg 420
gtgtccaata tgcaatggtg tggtagatcc gtgctccgac aaatagtctg aagtgcagga 480
tgggctgtag aaggg   495

<210> 115
<211> 362
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 167409H1

<220>
<221> unsure
<222> 4-5, 33, 66, 74, 118, 124, 142, 151, 153, 175, 199-200, 245, 283, 351
<223> a, t, c, g, or other

<400> 115
gcannaggga aacccacaaa tgaatgaaat ctntgaaggc gttcaggaaa gatccaaagg 60
aatatnctaa tcantttatg tgggaatatt ccactaatta cggacaagct cctctttnac 120
tttnagtcag ttacaccaag anttatcttt ntntggtagg gtcctgctgt acctntgcaa 180
gcccaacttt atgcttttnn aaagagagac tccagcttaa acatttatca cttctcacca 240
ctctntcaaa tagagtctgc tcacaatatg ctgcttatgg ggngaagaaa tcaaggctca 300
gcaatctcat aaagttagcc ccaaaagtgc ctacttctga tctggaggat ntttgccacg 360
ca                                                               362

<210> 116
<211> 280
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1846226H1

<220>
<221> unsure
<222> 87
<223> a, t, c, g, or other

<400> 116
gggacataca gaataggaac aggtgtttgc tctcctaaga gccttcatgc acacccctga 60
accacgagga aacagtacag tcgctantca agtggttttt aaagtaaagt atattcataa 120
ggtaacagtt attctgttgt tataaaacta tacccactgc aaaagtagta gtcaagtgtc 180
taggtctttg atattgctct tttggttaac actaagctta agtagactat acagttgtat 240
gaatttgtaa aagtatatga acacctagtg agatttcaaa                      280

<210> 117
<211> 257
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2052185H1

<400> 117
gccagaccca gacgtgactg aacgctgctc agatggctgg agctttgatg ctaccaccct 60
ggatgacaat ggaaccatgc tgttttttaa aggggagttt gtgtggaaga gtcacaaatg 120
ggaccgggag ttaatctcag agagatggaa gaatttcccc agccctgtgg atgctgcatt 180
ccgtcaaggt cacaacagtg tctttctgat caggggggac aaagtctggg tataccctcc 240
tgaaaagaag gagaaag                                               257

<210> 118
<211> 315
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2517389H1

<220>
<221> unsure
<222> 45, 51, 156, 159, 281, 313
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<223> a, t, c, g, or other

<400> 118
gcccatggac accaccccca tggacaccat cctcatggac accancccca nggacaccat 60
ccccatggac accatcccca atgccatgat ttccaagact atggaccttg tgacccacca 120
acccataacc aaggtcatgt tgccatggcc acggcncanc acctgggcac ttaagaaggc 180
gaggcccagg taaaggaccc tgtcccttcc attgcagaca aattggatct gtgtaccgac 240
tccctcctct aagaaaaggt gaggtgctgc cacttcctga ngccaatttt cccagtttcc 300
attggcgcaa canaa   315

<210> 119
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 911015T6

<220>
<221> unsure
<222> 177
<223> a, t, c, g, or other

<400> 119
agccatagaa ctttgcaaat gcgtttccat aaaagttctg agttacttga ctatgaaaag 60
tgaattttca ttttaaccaa cccccctcctc caatactacc agaaagcatg agattctgaa 120
gaaatcttca caaatctact cttaattatg gtagcaatgt tccagtctca attaggntct 180
gctgggttcc tggagtggga gtgaagtggc tcttgagtgg ctcccagcac ttgtgggagt 240
tctcatccaa acacctggag gcttgagtcc ccacttgtga ccgccagact taaagatgat 300

<210> 120
<211> 237
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 604856H1

<400> 120
gcaggagctg gagaagtggc tgaagaaaga gccagaggcc tttgactggt ccccagtggt 60
gacctatgtg tgtgatcttg aagggaacag agtcaagggt ccagagaagg aggagaagtt 120
gagacaggcg gtcaagcagg tgctgaagtg tgatgtgact cagagccagc cactgggggc 180
cgtccccttn ccccccggctg actgcgtgct cagcacactg tgtctggatg ccgcctg   237

<210> 121
<211> 517
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1448718T6

<220>
<221> unsure
<222> 107, 228, 344, 365, 390, 432, 438, 447, 449, 471, 475, 508
<223> a, t, c, g, or other

<400> 121
taacaacata tccagtgtac attttaacag gtggcaacat caccacaggt agctttgatt 60
atgtaatcaa cactttttaac tttccctaca catgtacatc aaatgtnaat ggtggaatat 120
acaagttaac cgtcctcctt caaactagct gagaaactac tctctcttat ttcattttgc 180
attttctagg cagtattttt ccatgctctt taaaaacaga cgcaggganct ttggaagagc 240
agaaatgcaa ttacttacat acaatatgat gagaagtgtt tcatgatata caaattgaca 300
taggacaagt tattaacata gtacaagttt ttactgtgta gaanaaataa acttacagtg 360

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aatanataaa cagctttcta tatccaagtn atgtatggag tataaaagag tagttactat 420
atatatatac cntatgcnta tatatanana tgtgcatgtt ctagagtata ntatnctata 480
tacttaaata ttcacgtgac agaacatnat ttcactg            517
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```
<210> 122
<211> 243
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2517268T6

<220>
<221> unsure
<222> 53, 86, 89, 95, 98-100, 106, 109, 111-113, 117, 120, 128, 140, 160,
177
<223> a, t, c, g, or other

<400> 122
caaggaacca gcttagtcaa ggaggtacag cctcagcagc aggtcaggat gtngtcctcc 60
tcctctgcct tggccccggg ggaggncang cgttntgnnn aaatgnctna nnngatnacn 120
gggaccanat aatcagagtn gggaccatcg tgaatccagn cccattgttg tgaatgnacc 180
agcaggacac ctcggcccca tgccacgggt ccttgctgta gtcttttgc aaacccctgg 240
tga             243
```

```
<210> 123
<211> 339
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 167134H1

<400> 123
gcaaaaagcc aaaagaaaca tttgtttcaa tattgactca gaacctggga aaaatcctca 60
acctggtttc tgacccagaa tcaggaattg tagtcaacgg tcagcttgtt ggtgccaaga 120
agcccaacaa tggaaaacta agcacctatt ttggaaaact gggattttat ttccaaagtg 180
aagacataaa aatagaaatc agcactgaga ccatcaccct gagccatggt tctagcacat 240
tctccttgtc ctggtccgac acggctcaag tcacgaatca gagggtgcag atctcagtga 300
agaaagaaaa agtggtaact atcaccctgg ataaagaga         339
```

```
<210> 124
<211> 244
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2843638H1

<220>
<221> unsure
<222> 44, 209
<223> a, t, c, g, or other

<400> 124
gaagaacagc tgggtatacc attatttcaa gtaataaatc tganttctat tagtttaaaa 60
attgtaaaat tcaagttaaa tgacgtgtat gatatataag ctgaacacat tttctatagc 120
ccttaattta gttgtgttaa tttttcaagg tgatgtatca acagcttttt ttatttgcat 180
tgtttttca atgtgtttac atgtatgant tgagcttttt gcccacagat tcttgatttg 240
tagt             244
```

```
<210> 125
<211> 265
<212> DNA
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<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1813269H1

<220>
<221> unsure
<222> 6
<223> a, t, c, g, or other

<400> 125
caagancctc ttccaccggg ccatttctga gagtggcgtg gccctcactt ctgttctggt 60
gaagaaaggt gatgtcaagc ccttggctga gcaaattgct atcactgctg ggtgcaaaac 120
caccacctct gctgtcatgg ttcactgcct gcgacagaag acggaagagg agctcttgga 180
gacgacattg aaaatgaaat tcttatctct ggacttacag ggagacccca gagagagtca 240
accccttctg ggcatgtgat tgatg 265

<210> 126
<211> 481
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1861971T6

<220>
<221> unsure
<222> 49, 63, 65, 91, 193, 409, 462
<223> a, t, c, g, or other

<400> 126
ggaaaaagct gaggtacaca tgtcgggttg gaggggcagg atggccccna agtctctgtc 60
ccncnccaag gctgtgtcct gctaggattc nccctcctcc tgtttcctct ccttctcgtg 120
gtgcttctcc agtggctcac acttatcctt tttccaatcg gtgtacacga catctgactt 180
gggaatgcgc aanagtcgag agcttcgtag aactctccca gttgctcctt ggtcgtctct 240
ggcttgtcag catagacaga cagcccccag ttcttctcat cgttcacgtc aaaagcaagc 300
atgtaggtct tggtgtccct gaggatcagc aagtgagcga aatgctcttg gcctcccacg 360
tatctggaga tggtcccatt ttcccgctgg acattcaggt aggtggtgnt atagatgact 420
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a 481

<210> 127
<211> 268
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2005973R6

<220>
<221> unsure
<222> 69, 88, 90-91, 265
<223> a, t, c, g, or other

<400> 127
ccgaagcgct gcgctgccag gaggagaact acctgccgtc gccctgccag tccggccaga 60
aggcgtgcng gagcgggggc cgctgcgngn ncttgggcct ctgctgcagc ccggacggct 120
gccacgccga ccctgcctgc gacgcggaag ccaccttctc ccagcgctga aacttgatgg 180
ctccgaacac cctcgaagcg cgccactcgc ttcccccata gccaccccag aaatggtgaa 240
aataaaataa agcaggtttt tctcntct 268

<210> 128
<211> 327

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<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2515729H1

<400> 128
ccaagggccg agtccgtctt ttgaataact gggacgtgtg cgcagacatg gtgggcacct 60
tcacagacac cgaggaccct gccaagttca agatgaagta ctggggcgta ctcctttctc 120
cagaaaggaa atgatgacca ctggatcgtc gacacagact acgacacgta tgccgtgcag 180
tactcctgcc gcctcctgaa cctcgatggc acctgtgctg acagtactcc ttcgtgtttt 240
cccgggaccc caacggcctg cccccagaag cgcagaagat tgtaaggcag cggcaggagg 300
agtgtgcctg gccaggcagt acaggat                                      327

<210> 129
<211> 317
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2132356T7

<400> 129
aagcccagcc ctgcagggag ggtcgctaag gtgcccagct cttctggggg gcttccttgt 60
ctctgatgtg cccatggatc cagtcgaggt agcggctgac tttggtgtaa acgccgtagt 120
tgtgaaggag cccacagccc tcaccccagc tcaccaggcc caccaggaac caggtgccgt 180
ggaaggaggc gaccatgggc cccccactgt cgccctcgca ggcatcctgc cggtccccga 240
ggatgcccgc acacagcatg ttctcagaca ccatgttgct catgacctcg ctgcactcat 300
tgtgcgggac cacggga                                                 317

<210> 130
<211> 262
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1001726H1

<400> 130
cgtggatgcc tttgactatg acctgcagac aggacagatc tccaaccgca gaagtgttta 60
caagctagaa aaggaagaac aaatcccaga tggaatgtgt attgatgctg aggggaagct 120
ctgggtggcc tgttacaatg gaggaagagt gattcgttta gatcctgtga cagggaaaag 180
acttcaaact gtgaagttgc ctgttgataa aacaacttca tgctgctttg gagggaagaa 240
ttactctgaa atgtatgtga cc                                           262

<210> 131
<211> 248
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2631845H1

<220>
<221> unsure
<222> 137, 246
<223> a, t, c, g, or other

<400> 131
gcaccatgaa gcttctcacg ggcctggttt tctgctcctt ggtcctgggt gtcagcagcc 60
gaagcttctt ttcgttcctt ggcgaggctt ttgatggggc tcgggacatg tggagagcct 120
actctgacat gagagangcc aattacatcg gctcagacaa atacttccat gctcggggga 180
actatgatgc tgccaaaagg ggacctgggg gtgtctgggc tgcagaagcg atcagcgatg 240
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ccaganag   248

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<210> 132
<211> 271
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 086390H1

<220>
<221> unsure
<222> 109
<223> a, t, c, g, or other

<400> 132
tatagctcca cggccagaag ataccagcag ctctgcttta ctgaaatttc agctggagaa 60
aggtccacag cacaatgagg cttttcacag gcattgtttt ctgctcctng gtcatgggag 120
tcaccagtga aagctggcgt tcgttttttca aggaggctct ccaagggggtt ggggacatgg 180
gcagagccta ttgggacata atgatatcca atcaccaaaa ttcaaacaga tatctctatg 240
ctcggggaaa ctatgatgct gcccaaagag g                                  271

<210> 133
<211> 262
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1287840H1

<400> 133
ctaagtaaga aacacaatgc caacagctgg ccagtaatta gtgttgtgca cttcatgtca 60
ttaatcaatt tctcaatagt tcttaaaatt agtgagatta aaaatctaaa aattttgcat 120
ttcatgctat cagaaacagt attttcttcc caaatcaaaa taaaagaaat atgatcagag 180
cttgaacaca ggcttatttt taaaataaaa atatttttaa catgggtttc cttattgaaa 240
aatcagtgta ttagtcataa aa                                            262

<210> 134
<211> 342
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2516905H1

<220>
<221> unsure
<222> 338
<223> a, t, c, g, or other

<400> 134
ctcagcgtgc tgcacctcaa agccgtagtg tacgtgagcc tggacaacgc agtgctgggg 60
gatgacaagt ttcatgccaa gaccagcccc cttctgacaa gtctcattga gagtgtcctg 120
aagcaggtgg attctcccaa ccacagtggg cagactctct atgaacaggt ggtgttcacc 180
aatcccagct gggatgctga ggtgatccgg cccctaccca tggacagcag tgcctattcc 240
ttcacggcct ttgtgggagt ccctgccgtc gagttctcct ttatggagga cgaccaggcc 300
tacccattcc tgcacacaaa ggaggacact tatgagancc tg                      342

<210> 135
<211> 539
<212> DNA
<213> Homo sapiens

<220>
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<221> misc_feature
<223> Incyte ID No: 606122T6

<220>
<221> unsure
<222> 393
<223> a, t, c, g, or other

<400> 135
cccccaaaaa tcaataaaaa gttcaaatag caactttttcc taatgtgttt aaaatgtaat 60
caccaaatac atgtgtcccc aacttctttc cagttataat tctattgtgt aaagtgaggt 120
atacctgaag tgaggcaata agagagttga gcttcagacc tgcctggaga gagcgtgttc 180
tttcttagag tctgaggaaa tggttggggg cacaaattct ctcaatcttt ttcttttccc 240
tcatcctgag ctcttatttt cttgtctcaa ctgctttctg gtaaactttg ttcacctggt 300
actttcaaga aaaaaagaag gaaatcttac gagagggagg cagattaatg aattagtgag 360
tcactctagc agcgcagagc aagggagaat ctncgatgtg aatgaggagg atctgagtgt 420
gggtgtggtt gtacttgggg aaaagcagga acaatcttga acccttgaca tggtgcattt 480
gagggccctc tcccagtagg gccacctgag tccctgagga gccgcaagcc tagtccagc 539

<210> 136
<211> 304
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3553733H1

<220>
<221> unsure
<222> 96, 234, 251, 266, 272-273, 281, 290, 298, 303
<223> a, t, c, g, or other

<400> 136
ctttgatgtc agtgtcaagg gcatcagcat ttcggtcaac ctcctgttgg gcagcgagtc 60
ctccgggagg cccacagtta ctgcctccag ctgcancagt gacatcgctg acgtggaggt 120
ggacatgtcg ggagacttgg ggtggctgtt gaacctcttc cacaaccaga ttgagtccaa 180
gttccagaaa gtactggaga gcaggatttg cgaaatgatc cagaaatcgg gatnctccga 240
tctacagcct natcgccaga gtcggncatt annacagaga nttgcagttn ctccgacntt 300
gtnt                                                                304

<210> 137
<211> 173
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1813381H1

<400> 137
cgagggcccc atcgatgccg ccttcacccg catcaactgt caggggaaga cctacctctt 60
caagggtagt cagtactggc gctttgagga tggtgtcctg gaccctgatt accccgaaa 120
tatctctgac ggcttcgatg gcatcccgga caacgtggat gcagccttgg ccc 173

<210> 138
<211> 213
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1634342H1

<400> 138
ggcagattga tgacatactc agtgtggcct ccgtgcgtcc agctgtcttg ccacccatac 60
ttggctcaaa atgagctaat tgcccactgc caagcacgtg gcctggaggt aactgcttat 120
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agccctttgg gctcctctga tcgtgcatgg cgtgatcctg atgagcctgt cctgctggag 180
gaaccagtag tcctggcatt ggctgaaaag tat   213

<210> 139
<211> 249
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1418871H1

<220>
<221> unsure
<222> 29, 225
<223> a, t, c, g, or other

<400> 139
gtcgctgcaa cgtggagggg cagtgcatnc gcaaggtggg ccgcatgaag ggcatgccca 60
cgaagctgtc ggcagtgggc atccttgtag gcaccctggt agcaatagga atcttcctca 120
tcctcatttt cacccactgg accatgtcaa ggaagaagga cccggatcaa ccagcagaca 180
gcgtgcccct gaaggcgact gtctgaatgg cccaggcagc tctanctggg agcttggcct 240
ctggctcca   249

<210> 140
<211> 492
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3766382T6

<220>
<221> unsure
<222> 448, 454, 460, 479
<223> a, t, c, g, or other

<400> 140
cagaagagag aattcttaga gtcagaggga ggagtagaag gaaaaagata tttaaaaagc 60
tatgcttcaa gaggacattt catgctgtca aaatgagact gtgaatcaga aagttctcgg 120
ggaactgcaa ggtgctctca actaggggtc ggttccttct cagtcatggc actgactcat 180
ctccacaggg ttctcacctg cgggaggaaa atggaggagt tgcgcctgtc agaaactgtc 240
tgtgtgattc ggggaagaat atggagtatc ttagtagcat tccattatta cttgccccta 300
aatacatgat gccagccccc tgcacagata acctcctgct tttatagctt gaaatatatt 360
tgatctaaac cacgatttga catcttcaga gagagagaag tagataaaag tctccattcc 420
aggttggcag tacggatccc tgcagaantg gctncaaatn aaatttggcc tacagagant 480
aagttctaca gt   492

<210> 141
<211> 574
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 943181T6

<220>
<221> unsure
<222> 521, 531
<223> a, t, c, g, or other

<400> 141
tgggaaccag acaaccccag aagccatctg tgcctgccct tggtgacagt gtactccaat 60
ctcatcattc attaatgtga tggccagtca ctgagcacct ggcagatact ggttttccat 120
cttctcacac tcagctctgc ccaaggtggg attttgtct ctcaaggcag gagccatcgt 180

cccaaccagg atgagccatc ctcttctggg ctaggttaaa gttgcctgtt atgccaaaga 240
atggagctgg actggaggga ggggcaggtg gtgatggggg aagagaagca gggtctcagc 300
ccaacctcag taccagggca gctggggtgc cctgtttcat cttgctgggc cggctcactt 360
tggggctggc ggatttgtca ggttggaaat tgctttcttc atctccaccc aggacacgca 420
gcccacagct ctgccccgcg acgtcacaaa gagggaatga aggttcaaca gctcaaagag 480
gttgtgtgct catgcaggga agtctctggg gacaacttca nggtcactgg ntctgtgggg 540
cagcttcagc caaagatgtc ctggagacac tgtg 574

<210> 142
<211> 531
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 603761R6

<220>
<221> unsure
<222> 211, 511
<223> a, t, c, g, or other

<400> 142
cgctggtagt gaacccttgg ctcactcaag ttcgaatctt tcatcaactc agatacaata 60
agtcagtgcc caacctttgc aaacagatct gcagccacct ctgccttctg agacctggag 120
gatacagctg tgcctgtccc caaggctcca gctttataga ggggagcacc actgagtgtg 180
atgcagccat cgaactgcct atcaacctgc ncccccatg caggtgcatg cacggaggaa 240
attgctattt tgatgagact gacctcccca aatgcaagtg tcctagcggc tacaccggaa 300
aatattgtga aatggcgttt tcaaaaggca tctctccagg aacaaccgca gtagctgtgc 360
tgttgacaat cctcttgatc gtcgtaattg gagctctggc aattgcagga ttcttccact 420
atagaaggac cggctccctt ttgcctgctc tgcccaagct gccaagctta agcagtctcg 480
tcaagccctc tgaaaatggg aatggggtga ncttcagatc aggggcagat c 531

<210> 143
<211> 220
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1297562H1

<400> 143
aaagacagtt tatcatcaac tctttcagtg gtaaactgtg gtttccccaa gctgcacagg 60
aggccagaaa ccacaagtat gatgactagg aagcctactg tcatgacagt ggggagacag 120
gcagcaaagc ttatgaagga ggtacagaat attctttgcg ttgtaagaca gaatacgggt 180
ttaatctagt ctaggcacca gatttttttc ccgcttgata 220

<210> 144
<211> 282
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2910715H1

<220>
<221> unsure
<222> 24
<223> a, t, c, g, or other

<400> 144
ctcctgcaga cccacgtcac caangagggg gagcggattc tcctcaacca agccactgtc 60
aaattccacg tggactcctc ctctgagagc cccttcctca ttctgcccat gacattctac 120
catgtgctgg atgagacgag cccctgaga gacctcacac cccaaaacct aaaggagaag 180
gagtttgagc ttgtggtcct cctcaatgcc actgtggaat ccaccagcgc tgtctgccag 240

agccgaacat cttatatccc agaggaaatc tactggggtt tt   282

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<210> 145
<211> 550
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 196975T6

<220>
<221> unsure
<222> 519, 531
<223> a, t, c, g, or other

<400> 145
tctcacagca gaagtacaaa tcatatgtac aagtatttat atcaatgaaa atttccattg 60
gtgattttt ggcagaatat tggtcttgac tctgtggaat aaatgacgac gtaaacgtag 120
ctgcacaggg gtgttcctgt ataatgcttg aatcaattgt gtgtgaaagc atcatgcaaa 180
tggctaatta aattgggtga tgactgaaag gttataaatc cttcattcca gctccacgag 240
cagatcccct tctccaactg tgtctccagc ttgacagtgc acagatttca ccgtgccagt 300
tttcccagct gtcatactat tctgcatttt catggcttca atcacacaaa tttcttgacc 360
ttctgctacc gcgtctccag gcttgacaga gacggccacc accactccgg gcatcgggga 420
acgcagaaca ctgcttgtgt cctcagtcac tttttccagc ataaatttgt tcaattctgc 480
ggcaagtctg ggttaagata ttccccttgt acactgtanc caagaaactg natgcccatg 540
tttccacctg                                                           550


<210> 146
<211> 265
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1453049H1

<400> 146
tgcccagcga cggcttaagc cagcccccga ctggcctggc cacactgctc tccagtagca 60
cagatgtctg ctcctcctct tgaacttggg tgggaaaccc cacccaaaag ccccctttgt 120
tacttaggca attccccttc cctgactccc gagggctagg gctagagcag acccgggtaa 180
gtaaaggcag acccagggct cctctagcct catacccgtg ccctcacaga gccatgcccc 240
ggcacctctg ccctgtgtct ttcat                                          265

<210> 147
<211> 256
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1968695H1

<220>
<221> unsure
<222> 132
<223> a, t, c, g, or other

<400> 147
ctacttaacc tccgtgatgg ggaaagcggc cggagaaagg gagttctggc agcttctccg 60
agaccccaac accccactgt tgcaaggtat tgctgactac agacccaagg atggagaaac 120
cattgagctg angctggtta gctggtagcc cctgagctcc ctcatcccag cagcctcgca 180
cactccctag gcttctaccc tccctcctga tgtccctgga acaggaactc gcctgaccct 240
gctgcaactc ctgtgc                                                    256

<210> 148
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<211> 281
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 958344H1

<400> 148
ggcgacctgt cccgatttgc actgctcatg accaactgct atgccacacc cagtagcaat  60
gccacggacc ccctgaagta cttcatcatc caggacagat gcccacacac tagagactca 120
actatccaag tggtggagaa tggggagtcc tcccagggcc gattttccgt ccagatgttc 180
cggtttgctg gaaactatga cctagtctac ctgcactgtg aagtctatct ctgtgacacc 240
atgaatgaaa agtgcaagcc tacctgctct gggaccagat t                     281

<210> 149
<211> 218
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 254081H1

<220>
<221> unsure
<222> 3, 8, 11, 47, 58
<223> a, t, c, g, or other

<400> 149
cgnctggngg nagcctctat tcttaccttc tgggaatgct aggctgntat aaaatggnca  60
gttggattta tgcttgctca tccttatggt tttacacgag taatgtcaag ctaccgttgg 120
ccaagaacag tttcaaaatg ggaaacgaat gttaataatt gggttggggc caccaaataa 180
taatggggta attaaaggaa gttactatta atccagac                        218

<210> 150
<211> 240
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1330674H1

<400> 150
gtggacatct tcaagggcat ccccttcgca gctcccacca aggccctgga aaatcctcag  60
ccacatcctg gctggcaagg gaccctgaag gccaagaact tcaagaagag atgcctgcag 120
gccaccatca cccaggacag cacctacggg gatgaagact gcctgtacct caacatttgg 180
gtgccccagg gcaggaagca agtctcccgg gacctgcccg ttatgatctg gatctatgga 240

<210> 151
<211> 102
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2377834H1

<220>
<221> unsure
<222> 54, 73, 88, 97, 101
<223> a, t, c, g, or other

<400> 151
tggtggcgga gaacccgcac cttgtcagca agatccagat tggcaacacc tatnaagggc  60
gtcccattta tgngctgaag ttcagcangg ggggcantaa nc                    102
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<210> 152
<211> 527
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2075464T6

<400> 152
cccccaggggcc ctaatagggg tggtctcgca catgctccat gattgccttc aagccaagcc 60
aggtctcctc ggctgtgggc aggatctgac gggctggcaa gaggaagccg tagcgccctg 120
tgtctctcag ttcaaaggca aatgagtact tgatgccata atcataggac cagtcaatgc 180
ttcctccact ggcttggtag atgacagagc agattggtcc cactttgtac ttggtgccat 240
gcaggcttct cagagattgg gcagcctttt gggccacttc actcagctca tcaaagtcat 300
ctaacttggt acatttgtac ccataggggga acatcagcag ctgggaatag ctgtggaggg 360
taatgaaggc cttgactttt ccatgactct tgatgaagtc cactatggat ttcacttcaa 420
cttcagagtt ggcactgggt ccgtggtatg aatcagagca agggttgctg ctggctccag 480
gtcctccaaa acctgcatcc cagttccggt taggatccac accaaca 527

<210> 153
<211> 232
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2383235H1

<400> 153
cactcaccat ggagaagatc ctgatcctcc tgcttgtcgc cctctctgtg gcctatgcag 60
ctcctggccc ccggggggatc attatcaacc tggagaacgg tgagctctgc atgaatagtg 120
cccagtgtaa gagcaattgc tgccagcatt caagtgcgct gggcctggcc cgctgcacat 180
ccatggccag cgagaacagc gagtgctctg tcaagacgct ctatgggatt ta 232

<210> 154
<211> 234
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1285503H1

<220>
<221> unsure
<222> 155-174
<223> a, t, c, g, or other

<400> 154
gaagaagagg tgcaagatac aaggctttag agagcagcat aaatgttgac atgggacatt 60
tgctcatgga attggagctc gtgggacagt cacctcatgg aattggagct cgtggaacag 120
ttacctctgc ctcagaaaac aaggatgaat taagnnnnnn nnnnnnnnnn nnnntttggt 180
aaggggaatt gaggacactg atatgggtct tgataaatgg cttcctggca atag 234

<210> 155
<211> 446
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2383205T6

<220>
<221> unsure
<222> 156, 276, 323, 402, 412, 420

<223> a, t, c, g, or other

<400> 155
caagtctgaa acagtcccag ggacttcttt tggttagtta tttgcaatca ccgaattgat 60
ccagtcgatg taattggaga cccgcgtgaa gacggagggc ttgtggtagt agttgcagcc 120
gaggcgagac ccgaagctga cgatgccgtg cacctnccac cggccgtcag acgctgacag 180
ttcatgggcc cgccagatct ccgttgcagc tggagatcac gccatcaccc ccagcacaga 240
tcatactggt tttcacgctg ctgccccacc aggcanagct ggagcaggtg gatattccca 300
aacagcaacc ggccctgctg cangacatca ggaacagccc cgttggtctg cagccttccc 360
cagcccgtga cgtagcaggg gtagttgttg ggtagaatgg tnccggcaag anggaggcan 420
gccagctgga tcttgtcggt gaggga   446

<210> 156
<211> 294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2015871H1

<400> 156
tgttgggtga gtacaacctt gctgtgaagg agggccccga gcaggtgatc cccatcaact 60
ctgaggagct gtttgtgcat ccactctgga accgctcgtg tgtggcctgt ggcaatgaca 120
tcgccctcat caagctctca cgcagcgccc agctgggaga tgccgtccag ctcgcctcac 180
tccctcccgc tggtgacatc cttcccaaca agacaccctg ctacatcacc ggctgggggcc 240
gtctctatac caatgggcca ctcccagaca agctgcagca ggcccggctg cccg   294

<210> 157
<211> 195
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2374046T6

<400> 157
gatttacata ggggagttgg agatgctaac caagcatgga gttttcacat ggtctatttc 60
tgctgagttc agggacttgg agacagcctt taacttctgg caaaaagaca atttcacaaa 120
ggtgtttaaa accatccttt ggtttttgat cctgagtcag agacggacat gtgcttatga 180
aagaaggtag agttt   195.

<210> 158
<211> 437
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1709828T6

<220>
<221> unsure
<222> 150-181
<223> a, t, c, g, or other

<400> 158
ctaacagaac aaaaagtttt tacagtgctt tctcatacag tgtctgggat ttacagataa 60
cacaggtagt tttggtcagg ggttaatatt attgttgttt taaccaccgg ggccaggtgg 120
tggcgccaag gtcgtctagc tatttatttn nnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nccttttttg ctgtcttaca aactagggaa aaggggaggt tggggagaaa ctgggaagga 240
caacaggaga agtggtggtc tcatacctta tttcccccct ttgagcattt tcactttta 300
gtgggagttc tcactctcat ctttactttt tgagtctatt tgtgagatag agcgatagtg 360
atttatataa cacacgtgtg ctgaaagttt ctgatgaacc aaagtagcta caaaacctttt 420
gatcatttga aaaagca   437

```
<210> 159
<211> 265
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2061119T6

<220>
<221> unsure
<222> 143, 145, 148, 151, 194, 218, 233, 250, 257
<223> a, t, c, g, or other

<400> 159
gctggaggtg ctcatggtga caccgcacag gacttcctgc ctgctagaaa tcatctaccc  60
gcgtgttcct ttccccttc tggggcaaaa gccactgcgg gccatgtacc caaataaacc  120
tcttaatgcg tttgttaaaa ttngnttnga natctgagtt tccctctgaa gaaatggaaa  180
aagtgttggg tgtnccatcc cgcctccccc tccccgantg gcccattaag tcnctactaa  240
gagggcgtgn ctgctgnctc cggac                                        265

<210> 160
<211> 295
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3665105H1

<220>
<221> unsure
<222> 26, 45, 50, 117, 131, 137, 148, 154, 169, 205
<223> a, t, c, g, or other

<400> 160
ggcatcacca accacactgc cctgtnccca ttggagtggc aactnctgtn tctggaaaac  60
agaggtgctg gtgaaggcct gcccaggcgg gtaccatgtg taccggtttg gaaggcnctc  120
cctggtgtaa nctgatntac tgcacagncc catncacctg tggaggacna gtgtgagaag  180
gcctgccgcc ccgaggagga gtgcntgccc tcaacagcac ctggggctgt ttctgcagac  240
aggacctcaa tagttctgat gtccacagtt tgcagctcag ctagactgtg ggccc        295

<210> 161
<211> 438
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2068983F6

<220>
<221> unsure
<222> 241, 246, 249, 252, 285, 347, 358, 407
<223> a, t, c, g, or other

<400> 161
ggatatcaag gttctccata ggttcttcga gataagctta aagctgaatt tcctgtgtgt  60
ttcaggcatt cacagataaa ctcattctct gtacttctag ggtagcatct ttatgtatct  120
attatgtacc tcttatctat tgtgttatca tctctgttat agaagagcct tctgtagacc  180
atatagaaaa agattataga ggaggagaat ctactgctgg caattgggaa ccgcaaggta  240
nactanatna tntatcaaca actaatggcc atctaatgct atgcnggata tgaactttg  300
gggcctcagg aaagaaaaac caggaactag tttcaataat gaggtgncat ggttcccngt  360
ggcagattta gagcgcttat cgtttggcag gacacagaga ggtaggngaa caattccagg  420
aaagaagcag cttagaga                                                438

<210> 162
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<211> 248
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2242648H1

<400> 162
cattggaagg agggcagaaa tgaatgaact tatggagcag acctcggaga tcatcacgtt 60
tgccgagtca ggaacagcca ggaagacgct gcacttcgag atttccaagg aaggcagtga 120
cctgtcagtg gtggagcgtg cagaagtctg gctcttccta aaagtcccca aggccaacag 180
gaccaggacc aaagtcacca tccgcctctt ccagcagcag aagcacccgc aggccagctt 240
ggacacag   248

<210> 163
<211> 379
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 885032T6

<220>
<221> unsure
<222> 360, 364
<223> a, t, c, g, or other

<400> 163
accacgtttt taacaagggt aaagagattg caagacgttt tcttccacag tgtcgctgct 60
acaaaaatta tactcagtcc catcttcacc actttgcact gtgatttggg aagcccccag 120
tttgggctca gatagattta tcccacgttt gttccagagg aatttaactt tctgtatttt 180
tccaacatta aaatccacat caatagcaca cgtgtgactt gcatctggtt tgagggatcc 240
tttgaaaatc tcatattgtt ttgagttttc attacttcca tacaaagcaa tcctgatgta 300
cccattcact ttctcttttc cagaaagtgt gactgatatc ttatatcttc aactagtaan 360
gttnccactc cctcctgtg   379

<210> 164
<211> 496
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2383830T6

<220>
<221> unsure
<222> 211, 218, 220, 241, 277
<223> a, t, c, g, or other

<400> 164
tgaggcagat agaggtgatg cttttgagag gtgatattca actctgacaa tacttcttgg 60
tgtccaggtt cttgtgtgcc ttgttatatg gagcttttga aaagcagatg gcagcgttgc 120
ggtcgcagtt gcaaatgaag gcctcacact ctttgttttt gctgctacag gtgattgccg 180
agccagagca cgagtatgaa taggtgtggg ngtacggntn gtccagcaga aatttacagc 240
ngtccagctt cttggcctgg tcatagcagt tgtcatntgt ctggcagcac ttgtccagtt 300
catccacggg ggtgcctgag ccccccaagc cacagtagca gccgtagttg ttgtattcca 360
agaaggggtc actccccggg atcacgcact tgatcatttt gcggaactgc cacacggccc 420
gagggctgat gccgctgtcg gcggcggcca ctgtgaccag cacagctagc acaaggagtt 480
tcatcttgcc tcgagc   496

<210> 165
<211> 285
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 2085191H1

<400> 165
accatgaatc cactcctgat ccttaccttt gtggcagctg ctcttgctgc cccctttgat 60
gatgatgaca agatcgttgg gggctacaac tgtgaggaga attctgtccc ctaccaggtg 120
tccctgaatt ctggctacca cttctgtggt ggctccctca tcaacgaaca gtgggtggta 180
tcagcaggcc actgctacaa gtcccgcatc caggtgagac tgggagagca caacatcgaa 240
gtcctggagg ggaatgagca gttcatcaat gcagccaaga tcatc         285
```

```
<210> 166
<211> 292
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2792982H1

<220>
<221> unsure
<222> 15, 100-101, 110, 159, 167, 198, 212, 218, 222, 229, 258, 269, 271-
272, 274, 288
<223> a, t, c, g, or other

<400> 166
gcagacggct gcgangcgct gggcacagtt gctgtcccct ttgacgatga tgacaagatt 60
gttgggggct acacctgtga gaattcttct cccctaccan ntgtccctgn attctggctc 120
ccacttctgc ggtggctccc tcatcagcga acagtgggng gtatcancag ctcactgcta 180
caagacccgc atccaggnga gactgggaga gnacaacntc anagtcctng aggggaatga 240
gcagttcatc aatgcggnca agatcatcng nnancctaaa tacaacangg ag         292
```

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<210> 167
<211> 103
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 243123H1

<220>
<221> unsure
<222> 57, 62, 67, 71, 89, 91
<223> a, t, c, g, or other

<400> 167
gtctgttcca aggggtttcc ctttccactc atcggagatt cagagggatg agctggnacc 60
anctggnaca ngggtgtccc gtgaggctnt ntcgggtctg ctg         103
```

```
<210> 168
<211> 491
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 382416R6

<400> 168
gaaaatccac atcttccaga caatccatgt cttccggaca atccatgtct tccaagaagc 60
tccaagtctt ccagtaaatc aagtcttcca gcaaatccag tcttccagca attactggtc 120
ttccaccaaa tccagatctt ccaggaaaat ccacgtcttc caggaaatcc atgtcttcca 180
ataatttcaa ggtcttccat caaatacaga tcttccagct aatccatgtc ttccagaaaa 240
atctgtgtct tccaccaaat ccaagtcttc cagtaaatct agttcttcca gaaaaatcta 300
gatcttccag tcaatcagtg tcttccagaa agaaatccag tcttccagt caatcagtgt 360
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cttccagaaa gaaatccagg tcttccagtc agtcagtgtc ttccagaaaa atctacgtct 420
tccaccaaat ccaggtcttc cagtcaatcc acatcttccg ggaaaaatcc aggtcttcca 480
gccaatatat g   491

<210> 169
<211> 275
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1852659H1

<400> 169
gttttacaga tgaaggaatg ttttatagta atttaatttg ctcctgtagc tgcattattt 60
cttgattaga ggtttgggca tataaccaga ttaaagtgaa ggaactttct gttgtttttg 120
tagcaccgct cagctgtctt gtaaaacagt gaacacacgc tttctggttc tagtaatcct 180
gggtgtttat cacgttcaga gaaactcaag ctattgcatg attagccccc tatctggcaa 240
ggaaacccca tacagaagaa acaacaaacc tgcgc   275

<210> 170
<211> 322
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3220181H1

<220>
<221> unsure
<222> 208
<223> a, t, c, g, or other

<400> 170
ctgaacacat tgaagatgtc aaaatggcat ttgacagaga tggtgaaaag gccgatatat 60
ctgccaatgt ctatccagac ataaacatca tcactggagc ccttaaactg tatttcagag 120
acttacccat ccctgtcatc acatatgata cctattccaa atttatagat gcagcaaaaa 180
tctccaatgc agatgagagg ctggaagngt ccatgaagtg ctgatgctgc tgcctcctgc 240
ccactatgaa accctccggt acctaatgat ccacctcaaa aaggttacta tgaatgaaaa 300
agacaatttc atgaatgcag aa   322

<210> 171
<211> 211
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1726307H1

<400> 171
atttttaac aattgtataa gtgcccaagt aattcactac agcctaaagc cttgcctttg 60
taatttgact tctgacatgt tggcaatcaa agcatgcact tgtaacaatg aaaaagaaaa 120
agcattttat attactactc aataaaatgt gcatgaactt acagaattct catccttcca 180
ctgagtccgc tgaagggatt tatgtgcaca a   211

<210> 172
<211> 324
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1904244T6

<220>

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<221> unsure
<222> 3-4, 33, 39, 47, 51, 56, 131, 161, 274, 298
<223> a, t, c, g, or other

<400> 172
ttnntgcttc tcacctgaaa cacgtaacag gangccatnc tcttcanccg ncgggnaatc 60
ttctttgaca caaaactcaa accgagtcaa cccaaagttc caagttcttt gctttctctt 120
ctgtgtgtag ngttggtttg tcccaaaagt cagtttgcaa nttgaaactt catgaaatta 180
ctcgtagcag aaataaagta cattgtacaa atcacgcagg tctgcgatgt ggagtataaa 240
aatggtattt acagccagta aacatggacc aganagacac gtacaactgc acaccggnac 300
acactcccaa gcaggccctc gggg                                          324

<210> 173
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2039955H1

<220>
<221> unsure
<222> 2, 58, 62, 224, 247, 259
<223> a, t, c, g, or other

<400> 173
angctgttga atcagaaaca gatcaacagc ccaaagattt tcctgtccct gggggaangg 60
gnttgccagc cccaggaagc tccagggctg agtggtcagg agccagtttc tccagcccct 120
cctccccaca acccctagtg gggaggggca gctgtccatt tgcccaaagt attaatgcaa 180
ctgaagctgt gatatttcca acgactgtag gaggaaaaat taangggaga gaggaaaaca 240
aaaccancca acccctaana tcattttctt attgtacata acgacctcat tctcct      296

<210> 174
<211> 97
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2675641H1

<220>
<221> unsure
<222> 95
<223> a, t, c, g, or other

<400> 174
gaattctaaa aaatattttt ttctatgaaa ttactagtgc ccagctgtag aatctacctt 60
aggtagatga tccctagaca tacgttggtt ttgangg                            97

<210> 175
<211> 134
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1412749H1

<400> 175
accgagttct agaagctcct gacaaggagg cagcatccag ccttgaccag gcctcccagt 60
tccctggaac cgtatcaggc attcccctgc ctctcacaaa tgtttcaggg aggccagttc 120
tgcagggtgt cagc                                                     134

<210> 176
<211> 255
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<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1963854H1

<220>
<221> unsure
<222> 6
<223> a, t, c, g, or other

<400> 176
cttggnaact gttttgaaag ataacacaga gggaaaggga gagccacctg gtacttgtcc 60
accctgcctc ctctgttctg aaattccatc cccctcagct taggggaatg cacctttttc 120
cctttccttc tcactttgc atgtttttac tgatcattcg atatgctaac cgttctcagc 180
cctgagcctt ggagaggagg gctgtaacgc cttcagtcag tctctgggga tgaaactctt 240
aaatgctttg tatat                                                  255

<210> 177
<211> 259
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2949085H1

<220>
<221> unsure
<222> 60-75
<223> a, t, c, g, or other

<400> 177
gagcattgca gctccaggaa gatgaataca tggcttggca ttttctatgg ttacaagggn 60
nnnnnnnnnn nnnnnggaat cttccttgct tatgagacca agagtgtgtc cactgagaag 120
atcaatgatc accgggctgt gggcatggct atctacaatg tggcagtcct gtgcctcatc 180
actgctcctg tcaccatgat tctgtccagc cagcaggatg cagcctttgc ctttgcctct 240
cttgccatag ttttctcct                                              259

<210> 178
<211> 284
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2963196H1

<220>
<221> unsure
<222> 162
<223> a, t, c, g, or other

<400> 178
ggagacgcat cacctccgct gctcgccgct cctacgtctc ctcaggggag atgatggtgg 60
ggggcctggc tcctggccgc cgtctgggtc ctggcacccg cctctccctg gctcgaatgc 120
cccctccact cccgacccgg tggatttctc cctggctggg gnctcaatgc tggcttcaag 180
gagacccggg ccatgagcgg gcagagatga tggagctcaa tgaccgtttg caagctacat 240
cgagaagttc gttctgggaa cacaaaacaa ggcgtggctg ctga              284

<210> 179
<211> 279
<212> DNA
<213> Homo sapiens

<220>
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<221> misc_feature
<223> Incyte ID No: 1505977H1

<400> 179
gggttcaagt acaagttgac aattgttggt gatggcaagt atggggccag ggatgcagac 60
acgaaaattt ggaatgggat ggttggagaa cttgtatatg ggaaagctga tattgcaatt 120
gctccattaa ctattaccct tgtgagagaa gaggtgattg acttctcaaa gcccttcatg 180
agcctcggga tatctatcat gatcaagaag cctcagaagt ccaaaccagg agtgttttcc 240
tttcttgatc ctttagccta tgagatctgg atgtgcatt 279

<210> 180
<211> 205
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1674985H1

<220>
<221> unsure
<222> 76
<223> a, t, c, g, or other

<400> 180
gtcaaaggtc atcaagcagt gttcatttat cctgtcacat gtttctgttt ctatagtaat 60
ttagaaattg caaatngtta acttttcatc atgtaaaaag ttaacattat cctatttcca 120
tagataccat ggacggcggt gtggcctgag ttgtcagtct ttaatcctga gtcatgtggc 180
tctcttttca tctttgatgt cagtt 205

<210> 181
<211> 464
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2109054R6

<220>
<221> unsure
<222> 439
<223> a, t, c, g, or other

<400> 181
ctagagcatg aatacatcca caacttcaag gtgctgcaac agctttcaag aagatgggtg 60
ttgacaaaat cattcctgta gagaaattag tgaaaggaaa attccaagat aattttgagt 120
ttattcagtg gtttaagaaa ttctttgacg caaactatga tggaaaggat tacaaccctc 180
tgctggcgcg gcagggccag gacgtagcgc cacctcctaa cccagttcca cagaggacgt 240
cccccacagg cccaaaaaac atgcagacct ctggccggct gagcaatgtg gccccccccct 300
gcattctccg gaagaatcct ccatcagccc gaaatggcgg ccatgagact gatgcccaaa 360
ttcttgaact caaccaacag tggtggactt gaagctgaca gtggatgggc tggagaagga 420
cgtgacttct acttcagcna acttcgtgac atcgagctca tctg 464

<210> 182
<211> 238
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3317039H1

<400> 182
tgccgtctgc accagtatga tgggtccata gttgtcatcc agaacccagc ccggcagacc 60
ctcttcttca atggcacccg tgccttgaag gatgagcgtt ccagcttga ggagttctcc 120
ccacgccggg tgcggatccg gctctcagat gcccgcctgg aggacgaggg gggctatttc 180
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tgccagctct acacagaaga caccaccac cagattgcca cgctcacggt actagtgg　　238

<210> 183
<211> 598
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2838551T6

<400> 183
aggaccaaga tggggctggc ctgtgtcagt caggaagcct ccctcttctg ctgggacagg 60
gccttgcggc agctcctcct ccccgcctga ggtcctaggc ctgccacagg ccagcatgcc 120
ggtgaggtca gtggcaggag ccacccagaa gccccgcaga tgacggagct gagaacaggg 180
acttcacctc cacgtgttgc catttcctca ctggaaagtc cttgggaggt ggctgggctc 240
agcctgagct cagggctctt cggtgggggt tggggcaggg gcagggcggg cacttgcagg 300
tggcacaggc ttcatcaagg caggacacgg gcttcatcaa ggcaggagcc acagcgcccg 360
agccctggca ggggaggtaa ggcccaggat ggggcagggc cgtgtgctcc tggaacggac 420
atccttctct gccagagacc tgctccccaa gccctgtccc tcccaatccc caggcagccc 480
actctgccct ccatagatga atctaatccc atatattaca ataaactgca tttgcctctc 540
cccattgacc ccaccctccc ctaccctggg ccagcggccc cactttcctt gtctctgg 598

<210> 184
<211> 381
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1477568T6

<220>
<221> unsure
<222> 255-327
<223> a, t, c, g, or other

<400> 184
taagaaatgc agattggcaa tcatgtacat ctctgattaa aacaacactc acataaccaa 60
cacaatttgc taggccaaag tcttcacggg caatccctgg ggtgggagtc tgggatgggg 120
tggataatga aggatacctg gggttgcaga agtggggtgg gaatccctgg ggcatcagtc 180
cacaggaggt gggggccagc gatggcttca ggggtgatat ttccaatata tatcagccct 240
gggcactctc gcccnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnncca gatctattga gttagaagct gtattaacaa 360
gatccccagt gatttttatg c 381

<210> 185
<211> 479
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2963871F6

<220>
<221> unsure
<222> 368, 400, 423, 472
<223> a, t, c, g, or other

<400> 185
gtcaatacaa atgctcaggc ccactgggaa ttgaaggtgg aattatatca aaccagcaaa 60
tcacagcttc ctctactcac cgagctcttt ttggactcca aaaatggtat ccctactatg 120
cacgtcttaa taagaagggg cttataaatg cgtggacagc tgcagaaaat gacagatggc 180
cgtggattca gataaatttg caaaggaaaa tgagagttac tggtgtgatt acccaaggag 240
ccaagaggat tggaagccca gagtatataa aatcctacaa aattgcctac agtaatgatg 300
gaaagacttg ggcaatgtac aaagtgaaag gcaccaatga agacatggtg tttcgtggaa 360

acattganaa caacactcca tatgctaact ctttcacacn ccccataaaa agctcagtat 420
gtnagactct atccccaagt ttgtcggaga cattgcactt tgcgaatgga anttcttgg 479

<210> 186
<211> 88
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1740547H1

<400> 186
tggaagagaa ccgtttttaat ctggattttg ttttgtcaca cctggaaaat actttgcaaa 60
tatgttctaa attgaaaaca atttttttt   88

<210> 187
<211> 230
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2292011H1

<400> 187
tgtatctgca cagtggtcgc cccacagcag accatgtgtt cacgggatgc ccgcacaaaa 60
cagctgaggc agctactgga gaaggtgcag aacatgtctc aatccataga ggtcttggac 120
aggcggaccc agagagactt gcagtacgtg gagaagatgg agaaccaaat gaaaggactg 180
gagtccaagt tcaaacaggt ggaggagagt cataagcaac acctggccag   230

<210> 188
<211> 251
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1349484H1

<220>
<221> unsure
<222> 167
<223> a, t, c, g, or other

<400> 188
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aaaccaggca tctggtcaaa ccagcagatc aaaaagcaca aagagctggg gcagaggcag 120
gaagcagggg ccctcctggc agctcctctg agtggggaga ggttggncag tgagtgaggg 180
acccctaatg cagggactag aagcctcagt ttccccattt taccttcca cacaatagcc 240
tctgtaggtt a   251

<210> 189
<211> 200
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1674253H1

<400> 189
cctggcttag gcaggtaggg gaattagggc catgctggaa gaagcttaac catgtgttca 60
aagaacggtt tcttgcttgc ttggtcctgg aactcccctt ggctgcccca ggcctccttg 120
gcccatgggt gctgggggag gtggatgtca gatctggtag gttgcagcag agaaaataaa 180
tgtgccttga gagaccactc   200

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<210> 190
<211> 258
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1932189H1

<220>
<221> unsure
<222> 59, 76, 249
<223> a, t, c, g, or other

<400> 190
tgctgctgct cttctccctg acccagttca gcgtggtgag cgtcgtggcc tacctggcnc  60
tggccgcact ctcagncacc atcagtttcc gcatctacaa gtctgtttta caagcagtgc 120
agaaaaccga cgaaggccac cctttcaagg cctacttgga gcttgagatc acccttttctc 180
aggagcagat tcagaagtac acggatgcct gcagttctac gtgaacagca cattaaggaa 240
tgaggaggnc ttccttgt                                                258

<210> 191
<211> 561
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1403041T6

<220>
<221> unsure
<222> 549
<223> a, t, c, g, or other

<400> 191
cacaaatcac catcaatatt tttggaagga ttggggacaa gatgtcgagt cagaatataa  60
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ttgcaaatgc aggaggtaag gctaaaatag gacttatgcc gttcagaaga ttgaattgaa 180
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attttccata atatttcctc ctgtttttata cctctaacta ccctcctgat ttctctgagg 420
aaaaaaaaga atataagagc aggatcaaaa aaaagcaaga gcttatcact ttagccttttt 480
agaaatactg ttttgtagca gataacctca aatttaaaac ttccgagggt tttcatcacc 540
cccttggang aaatatttgg g                                            561

<210> 192
<211> 362
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1486358T6

<220>
<221> unsure
<222> 3, 5, 10-11, 13, 162-164, 171, 173
<223> a, t, c, g, or other

<400> 192
agnanggtan nantgacctc tcttcctcac aggcaccagg ccttgtttct ctcccagata  60
agctaaggtc ggcaggggct gaggggagtg aggcagggag gatgcatggg gcctgtggga 120
accagagaga agctggggtc agaggtagga gctgacgctg tnnngggtgg ngngtgaaag 180
gtgaggcaag gtcaaaggtg aactgcagct cggagggagg ggtccaatat aaaccaggac 240
ttgcaggtgt agaagtaaaa tgggactcat agagggtgaa agagaagttg gagtcagagg 300
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ggattcagag atcaaagaga agttgggggtc agaggtagga gctggggctc aggtggggggg 360
tt                                                                  362
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<210> 193
<211> 444
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1439065F6

<220>
<221> unsure
<222> 161, 205
<223> a, t, c, g, or other

<400> 193
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agggccttgg ggaagggtca gagatgccag cccccctggga cctcccccat cctttttgcc 120
tccaagtttc taagcaatac attttggggg ttccctcagc ncccccacccc agatcttagc 180
tggcaggtct gggtgcccct tttcntcccc tgggaagggc tggaatagga tagaaagctg 240
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tctaggacct gggaatgggg tggagaggac atcctcttca ccccagaatt gcgctgcttc 360
agccccatct ccagcctgat cctctgaatc ttccttccct ccctttctga tatagtgact 420
ggggcaaaag gagccattgt gacc                                          444
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<210> 194
<211> 400
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 530629R6

<220>
<221> unsure
<222> 90, 187, 299, 302, 323, 338, 340, 343
<223> a, t, c, g, or other

<400> 194
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aggggggtcag gcactgcatg ctcgttccag caccatctgg gactgggtac agtacctcca 180
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ccactgagta atccggacct caacacctct tttcctttga gcccaaggca gagctggganc 300
tngcgccacc cagacagcgt cangtgtggc tggggtangn ttngaggtct gccagttacg 360
ccaagtcccc tctgagattc gatcagggga ctggatagat                          400
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<211> 121
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1672676H1

<400> 195
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caaccccccac cccccataat ctgactcaca acttcaccat cagttggggt cataccacta 120
g                                                                   121
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```
<210> 196
<211> 233
<212> DNA
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<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1989129H1

<220>
<221> unsure
<222> 66, 83, 232
<223> a, t, c, g, or other

<400> 196
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gcattngcaa atccacactg atnaacacac tcttcaacac gaccttcgag actgaggaag 120
ccagtcacca tgaggcatgc gtgcgcctgc ggccccagac ctatgacctc caggagagca 180
acgtgcagct caagctgacc attgtggatg ccgtgggctt tggggatcag ana   233

<210> 197
<211> 562
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1486348T6

<220>
<221> unsure
<222> 270-285, 483, 504
<223> a, t, c, g, or other

<400> 197
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aattaatatg cactatactc tcacctccac aatcattcca tagcaaatgt gtgtcttctg 120
gatgatgtgg aagagagagc ccagcaagca ctatgggcct ggctttgcca aaatctaaaa 180
caggccaaag ggatattaaa tttcttattt ggtgtgggtt gggctgggcc agtaatttgt 240
tctcacttac agtggtctgt cgtatgtttn nnnnnnnnnn nnnnnctgca cctcaccatg 300
ttattcccag gaatgtaatg gcctcagata tcccatcatt ggaaacactt catagtagag 360
gttaccattt tgttgtttat ttagcacctg aatttaggca agagaaacat ttctacctga 420
agactccatg cagtcaaatt tccctgcctt tatattggaa tttctacaga gacccatggg 480
ctncccaagt gaggaagcca gggnactcag ccctcaccct ccagctggcc ttgggacagt 540
aacttgcctg attcctcttt ct   562

<210> 198
<211> 223
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1397294H1

<400> 198
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gggtgggttc tgcaccaccc tcccaccctc cttcctccgt gtggacgata gagccacatc 180
cagcaccacg gacagctccc gggcgaccaa·aaagaagaat gta   223

<210> 199
<211> 585
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2844322T6

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<220>
<221> unsure
<222> 55, 419, 578
<223> a, t, c, g, or other

<400> 199
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cttcccctct cctgacacca gcaagggggga ggcaccatca ccggccctgc cccatcatgc 120
atccaatgat tactagcact agaagccaac ggcaaaggac cccgcgcgct tgctcgtgtt 180
taatccaggt taagctatac acgtttaaat acatgtcgga ggttacatgg tctcatgcag 240
tccctgtgat ggaatgactc ttgctcagtg acctcctgca gcgaggctgc tccaaagggc 300
aaggttaggt agggcagagc acttttaaaa tgtagtccgt tagcaaagta ggcaccttct 360
cattatcctc cttcatggca aagagaatgt ttgtcagcat ctgcaggtct tccactgang 420
gaggagaggc tttcttctcg taaggaatga ctgtgttcag atactgtttg tcagttcctg 480
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<210> 200
<211> 365
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1481440T6

<220>
<221> unsure
<222> 8, 29, 32, 35, 38, 67, 69, 79, 88, 99, 101, 112, 114, 126, 176, 230,
276, 308, 324
<223> a, t, c, g, or other

<400> 200
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cctaaangng ggggggcccna aaggggggntt ggtttgagng ngggggccaaa gngnaaggac 120
cccaangggc ccaaagggga aaagtttaag cccaaattaa aaattaaacc aaccgnggaa 180
ccaagaccca aggaagcttc ccccccttcc caaggaacca aggattggan ggggtaaaaa 240
aggaaggttt agaagaaggg aagccccgta aattgnaggg gccgttgggg ggtttcctgg 300
ccagggangg gggcaagctt gggntaaaag taatgggggga aggttcaatg gcccccccaa 360
gggac                                                    365

<210> 201
<211> 308
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 026459H1

<220>
<221> unsure
<222> 9, 22, 101, 111, 182, 186, 195, 214, 227, 246-247, 257, 284, 298, 305
<223> a, t, c, g, or other

<400> 201
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catttgcagt aattggcagc accactgtag tagaggccag ngggcggcga nttcggggtc 120
gactctaccc ctggggcatc gtggaagtgg aaaacccagg gcactgcgac tttgtgaagc 180
tnaggncaat tctgntacgt acccacatgc aggncctgaa ggatgtnaca cgggcgacac 240
attatnngcc ccaccgngca cagtgcaatc cagagcatga cccncctggt tgttaagnaa 300
cggantcc                                                 308

<210> 202
<211> 377
<212> DNA
<213> Homo sapiens
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<221> misc_feature
<223> Incyte ID No: 1406786T6

<220>
<221> unsure
<222> 6, 32, 151-152, 155, 208, 218, 258, 277, 333, 349
<223> a, t, c, g, or other

<400> 202
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aaaaagaggg agagagataa taaactatat tttggtgggg atggtgatta aacacctctt 120
ttgggtatgc cttttaaaaa tgcttataga nnaanaaaat tttaaaaaga tagctaatgc 180
tagtatatac tgcaatgtta ggggaatnaa catgtttncc tactgcattg gggacttcta 240
gataggttaa tgaaaggnct tttattctgt tactggncat gaaaactttg tctaatttct 300
tactctattg tacgtttaca gtcgcagcac tanaaatgga tgacatcana cattttaac 360
aaaatgatgt acaaact                                                 377

<210> 203
<211> 276
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1485846H1

<400> 203
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tttgtggggg ctgcagctac actggtttcc ctgctcacct tcatgattgc tgccacttac 180
aactttgccg tccttaaact catgggccga ggcaccaagt tctgatcccc cgtagaaatc 240
cccctttctc taatagcgag gctctaacca cacagc                            276

<210> 204
<211> 261
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2153242H1

<400> 204
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aaaaaactgt gagctggttg ttgcattaaa acacacatac aaacaaaatc aaaaacactg 180
cggactttca ctcaagctgg tctttcttcc ccagtgtaag gcaatcctgc ctactaacaa 240
caccaacaac aaaacactcc a                                             261

<210> 205
<211> 244
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2157981H1

<220>
<221> unsure
<222> 228
<223> a, t, c, g, or other

<400> 205
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agatattgtc tatcacccca gggggccatct gaaggtctct ttgcatttct ccatgcaaag 180
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aagt   244

<210> 206
<211> 252
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3244361H1

<400> 206
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gctgagtgcg accaccactt gatgtctgag gataccttcc atctcaacct acctcgagtg 240
gcgagtccag ac   252

<210> 207
<211> 577
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1986737T6

<400> 207
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agatctttta aaaatatttt gacttgttcc cccttcacac tcatttttaa attgtttgga 120
tgaggtcctc aatgtctata atgtcaatgc aagaaaaaat acagagagaa gtagtaaaat 180
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agtgaggagc taacaggagc tcccacacta catgcag   577

<210> 208
<211> 615
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2506867T6

<400> 208
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<210> 209
<211> 1141
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 1345551CB1

<400> 209
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<210> 210
<211> 6518
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1618422.con

<220>
<221> unsure
<222> 2496, 2503, 2505, 3049-3075, 3080
<223> a, t, c, g, or other

<400> 210
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<213> Homo sapiens

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<223> Incyte ID No: 4646418CB1

<400> 211

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<212> DNA
<213> Homo sapiens

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<400> 212

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<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 2483470CB1

<400> 213
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<211> 4214
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<213> Homo sapiens

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<223> Incyte ID No: 3030106CB1

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<221> unsure
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<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 2880435.con

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<212> DNA
<213> Homo sapiens

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<210> 222
<211> 1273
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 4014318.con

<400> 222
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<210> 223
<211> 3076
<212> DNA
<213> Homo sapiens

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<221> misc_feature
<223> Incyte ID No: 1485879CB1

<400> 223
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<211> 1765
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 2637261CB1

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<211> 2012
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1719955.con

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<210> 226
<211> 376
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

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<223> Incyte ID No: 2256026.con

<400> 226
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<210> 227
<211> 1050
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2501821CB1

<400> 227
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<210> 228
<211> 1106
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1532783CB1

<400> 228
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<210> 229
<211> 2873
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3013501CB1

<400> 229
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<210> 238
<211> 2585
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1665533.con

<400> 238
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<210> 239
<211> 1260
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 981484CB1

<400> 239
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gatggtacct tgtcccccctg ccaggaccaa atgccccccgg aagcgggggag cgacagcagc 180
ggagaggaac atgtcctggc gccccccgggc ctgcagcctc cacactgccc cggccagtgt 240
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cggcgaactg tggccaaccc caaccagagg ctgcccaagg tggagattct gcggagcgcc 420
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<210> 240
<211> 962
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 973629.con

<400> 240
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<211> 846
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1539638CB1

<400> 241
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gcctcccaag aaggatgttc ccgtgaagaa accagcaggg ccctccatct ccaaacctgc 180
tgctaagcca gcagcagcag gggctcctcc agccaagacc aaagctgagc cagctgtccc 240
ccaggcccct cagaaaaccc aggagcctcc agtcgatctc tccaaagtgg tgatcgagtt 300
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tggcaagatc ctgtacagca gtgtggagca cgtgatgagg gccctgggcc agaacccac 420
caacgccgag gtgctcaagg tcctggggaa ccccaagagt gatgagctga agtcgcggcg 480
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<211> 3575
<212> DNA
<213> Homo sapiens

<220>
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<210> 243
<211> 10387
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 2832314.con

<400> 243
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gccttattct cacagcaagc cccttagtcc ccaagcccct ccccctaagg cagctggggg 15300
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<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 974936CB1

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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1642009CB1

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<212> DNA
<213> Homo sapiens

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<220>
<221> unsure
<222> 83, 88
<223> a, t, c, g, or other

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<212> DNA
<213> Homo sapiens

<220>
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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

<220>
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<223> Incyte ID No: 1985870.con

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<212> DNA
<213> Homo sapiens·

<220>
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<213> Homo sapiens

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<213> Homo sapiens

<220>

<221> misc_feature
<223> Incyte ID No: 807530CB1

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<211> 561
<212> DNA
<213> Homo sapiens

<220>
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<211> 4004
<212> DNA
<213> Homo sapiens

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<211> 584
<212> DNA
<213> Homo sapiens

<220>
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<211> 3152
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 155179CB1

<400> 271
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<210> 272
<211> 1170
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 2132487.con

<400> 272
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<210> 273
<211> 933
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2921152CB1

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<220>
<221> unsure
<222> 836, 841, 843, 852, 865-866, 873, 918, 925, 930
<223> a, t, c, g, or other

<400> 273
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<211> 649
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1800311CB1

<400> 274
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<213> Homo sapiens

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<211> 2793
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1805613.con

<220>
<221> unsure
<222> 2474
<223> a, t, c, g, or other

<400> 276
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<213> Homo sapiens

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<223> Incyte ID No: 1845979CB1

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<212> DNA
<213> Homo sapiens

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<222> 3364, 3368, 3376, 3380
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<210> 298
<211> 4156
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1583076.con

<400> 298

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<210> 299
<211> 1973
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 139838CB1

<400> 299
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tgcattgaag aggttgaagt agctcccccc aaggctcatg aagttcgcat tcagatcatt 180
gctacctccc tgtgccatac tgatgccact gttatcgatt ctaaatttga gggccagtagct 240
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<210> 300
<211> 2245
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1344654.con

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<210> 301
<211> 1757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2513979.con

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gagaaagaag ggaagatgag aggtcccaca gaagtctgaa cccagggggtg gggattaggg 1020

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<210> 302
<211> 400
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 2369312.con

<400> 302
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<210> 303
<211> 722
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2514629CB1

<400> 303
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<210> 304
<211> 1195
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 085246,con

<400> 304
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ccaggagaag agattacgta ttcctgcaag ccgggctatg tgtcccgagg agggatgaga 240
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aagccatgct aaggtggttt tcagattcca cataaaatgt cacacttgtt tcttgttcat 1140
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<210> 305
<211> 1437
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 139825CB1

<400> 305
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gccctacagt attggaaag gctggtctgc ttgagaaact taaagaacaa gagtgtgatg 180
tgaaggatta tggggacctg cccttgctg acatccctaa tgacagtccc tttcaaattg 240
tgaagaatcc aaggtctgtg ggaaaagcaa gcgagccagct ggctggcaag gtggcagaag 300
tcaagaagaa cggaagaatc agcctggtgc tgggcggaga ccacagtttg gcaattggaa 360
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<213> Homo sapiens

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aacgtcctct ccattaaagt gagatcccac tcaaaaaaaa aaaaaaggc ggccgccgat 1560
tagtgagggg taccgagccc gaatccgtaa tcatgtaaaa cctgttccct gtgtaaaatt 1620
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<210> 310
<211> 1967
<212> DNA
<213> Homo sapiens·

<220>
<221> misc_feature
<223> Incyte ID No: 2517330.con

<400> 310
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gctgggccag aagcctcaga ggccacgccg gcccgcatcc cccatcagca ccatccagcc 180
caaggccaat tttgatgctc agcaggtaga agttgggggg ggtagaggga ggcaggtaga 240
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ctcccatggt ctgcccccag tttgcaggga cctggctcct tgtggctgtg ggctccgctt 420
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<210> 311
<211> 1452
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 272669CB1

<400> 311
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ggccatggat cctaacgctg cttatgtgaa catgagtaac catcaccggg gcctggcttc 180
agccaacgtt gactttgcct tcagcctgta taagcaccta gtggccttga gtcccaaaaa 240
gaacattttc atctcccctg tgagcatctc catggcctta gctatgctgt ccctgggcac 300
ctgtggccac acacgggccc agcttctcca gggcctgggt ttcaacctca ctgagaggtc 360
tgagactgag atccaccagg gtttccagca cctgcaccaa ctctttgcaa agtcagacac 420
cagcttagaa atgaccatgg gcaatgcctt gtttcttgat ggcagcctgg agttgctgga 480
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ggactgggca acagccagca gacagatcaa aagaataaga cacagggaa 600
aattgtcgac ttgttttcag ggctggatag cccagccatc ctcgtcctgg tcaactatat 660
cttcttcaaa ggcacatgga cacagccctt tgacctggca agcaccaggg aggagaactt 720
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cagggatccc acagaaatgt tttggagagc gggaggtttc ccccaatctc ctccaagttc 1380
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ctctgaaaaa aa                                            1452
```

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<210> 312
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<211> 1758
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 138361CB1

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gcccttcatt ggaaactacc tgcagctgaa cacagagcag atgtacaact ccctcatgaa 180
gatcagtgag cgctatggcc ccgtgttcac cattcacttg gggccccggc gggtcgtggt 240
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gcgaggcgag caagccacct tcgactgggt cttcaaaggc tatggcgtgg tattcagcaa 360
cggggagcgc gccaagcagc tccggcgctt ctccatcgcc accctgcggg acttcggggt 420
gggcaagcga ggcatcgagg agcgcatcca ggaggaggcg ggcttcctca tcgacgccct 480
ccggggcact ggcggcgcca atatcgatcc caccttcttc ctgagccgca cagtctccaa 540
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actgttgcgc atgatgctag gaatcttcca gttcacgtca acctccacgg ggcagctcta 660
tgagatgttc tcttcggtga tgaaacacct gccaggacca cagcaacagg cctttcagtt 720
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agaagaaaca gaagcggctc agttcacctt gataaggtgc ttccaagctg ggatgagagg 1680
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tgttttgat tttttgt                                               1758

<210> 313
<211> 1922
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 168865CB1

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tttatgcttc tcttttcact ctggagacag agctgtagga gaaggaagct ccctcctggc 180
cccactcctc ttcctattat tggaaatatg ctacagatag atgttaagga catctgcaaa 240
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cccatagtgg tgtttcatgg atatgaggca gtgaaggaag ccctgattga taatggagag 360
gagttttctg gaagaggcaa ttccccaata tctcaaagaa ttactaaagg acttggaatc 420
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gctccctgca atgtgatctg ctccgttgtt ttccagaaac gatttgatta taaagatcag 660
aattttctca ccctgatgaa aagattcaat gaaaacttca ggattctgaa ctccccatgg 720
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caggaaaagg acaaccaaaa gtcagaattc aatattgaaa acttggttgg cactgtagct 960
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acttttttaat atgttatcac tgtaaaacac agaaaagtga ttaatgaatg ataatttaga 1860
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aa                                                                 1922
```

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<210> 314
<211> 2379
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 271684CB1

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aacctggctt ctcctggctg tcagcctgat actcctctat ctatatggaa cccgtacaca 180
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tttgtccttc cgtaagggct attggacgtt tgacatgaca tgttataaaa agtatagaaa 300
agtctggggt atttatgact gtcaacgcc tatgctggct atcacagatc ccgacatgat 360
caaaacagtg ctagtgaaag aatgttattc tgtcttcaca aaccggaggc ctttcgggcc 420
agtgggattt atgaaaaatg ccatctctat agctgaggat gaagaatgga agagaatacg 480
atcattgctg tctccaacat tcaccagcgg aaaactcaag gagatggtcc ctatcattgc 540
ccagtatgga gatgtgttgg tgagaaatct gaggcgggaa gcagagacag gcaagcctgt 600
caccttgaaa cacgtctttg gggcctacag catggatgtg atcactagca catcatttgg 660
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tatagaactg aactccagcc tgagtgacag agtgagactg catctaaaaa ataaaattat 2160
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```

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<210> 315
<211> 2108
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2513588CB1

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tgaagccagc ccgtgacttg ggaatggtca ccatcctggt ccaggacact gacacggccc 660
tgaaagaact ggagaaagtg accggaatcc agcttctcaa tacccccggcc cctctgccga 720
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tgcattttgt ggagctgggc tccggccctg ctgtgtgcct ctgccatgga tttcccgaga 840
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gtggccaggt ggtgatttct ctttgaccaa tgcatagttt ggcagaaaaa tcagccgttc 2040
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aaaaaaaa                                                      2108

<210> 316
<211> 800
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1626663CB1

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tgggaacttc ctggcccaga tgattgagaa gaagcggaaa aaagaaaact ctagaagtct 240
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tcacttcttc tacttcttca tggaacattg gatccctcct gaggtccccc tggcagggct 360
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tgcctacctg gcctccttgg ggaagtgacg accgctggga gaacatcagg tgcactgtgg 540
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acaataaacg ataatgggtc                                               800
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<210> 317
<211> 1062
<212> DNA
<213> Homo sapiens

<220>
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<400> 317
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<213> Homo sapiens

<220>
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<212> DNA
<213> Homo sapiens

<220>
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ccccttcctt gatgagtcta tcatcaaaag cagaaacaat gagatcattt tatttaaagg 1200
agtatttcct cctctacttg agaagtcaac catagcagtg attggctttg tccagtccct 1260
tggggctgcc attcccacag ttgaacctcc agtcccgctg ggcagcacaa gtaataaagg 1320
gaacttgtac tttgccttct atggaagaca tgatgaatga tattaatgag aaaatggaga 1380
aaaagcgcaa atggtttggc aaaagcgaga ccatacagac agattacatt gtttatatgg 1440
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ccaaattggc catggaagtt tattttggcc cttgtagtcc ctaccagttt aggctggtgg 1560
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acattagtca gtaatacagt gttatttcta ggctctgaaa tagccacttt aagaatcatg 1920
tcatgatctt aagagagcac taatcatttc tgtttgagtt ccactaacac ttcaaaatca 1980
gaactatgtt ctttatatct aacttaaatc atttcctgaa acattttgac atgattcctt 2040
tttcctttta aacaatgtat gaaagatgta ttttaaatct aaataaagag caaattaagc 2100
agaataatta taatatgata ctctcaggct acttctataa gctatttgca gggtcaaggg 2160
gggagcttgg ctattacatt attttttcatt tgtttgtttt gtgcaacata atccaggtaa 2220
gacctcctct tctctgccca agaaacatag cataaagacc tggtctatat tgaaagttaa 2280
cacaaagtaa tttgttttat ttatattctc aataaggaac aaactttta acttctagca 2340
gcaaaagaat aatagccata gccatgagtg gtagtaccaa ataatac 2387
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<210> 322
<211> 1705
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1995380.con

<400> 322

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ttgaaaaaat ggttgacctc acccaggtaa tggatgatga agtattcatg ggcttttgca 180
tcctatgcaa caattattct ttcaaaaatg atgcttatga gtactgcaac tgcattctat 240
agattgacaa gaaaggtttt tgccaatcca gaagactgtg tagcatttgg caaaggagaa 300
aatgccaaga agtatcttcg aacagatgac agagtagaac gtgtacgcag agcccacctg 360
aatgaccttg aaaatattat tccatttctt ggaattggcc tcctgtattc cttgagtggt 420
cccgaccct ctacagccat cctgcacttc agactatttg tcggagcacg gatctaccac 480
accattgcat atttgacacc ccttccccag ccaaatagag ctttgagttt ttttgttggg 540
atatggagtt actctttcca tggcttacag gttgctgaaa agtaaattgt acctgtaaag 600
aaaatcatac aactcaacat ccagttggct ttttaagaat tctgtacttc caatttataa 660
tgaatacttt cttagatttt aggtaggagg ggagcagagg aattatgaac tggggtaaac 720
ccattttgaa tattagcatt gccaatatcc tgtattcttg ttttacattt ggattagaaa 780
tttaacatag taattcttaa gtcttttgtc tgattttaa agtactttct tataaatttg 840
gatcatgtta tgatttgtaa cattcacaca acacctcact tttgaatcta taaaagaatt 900
gcacgtatga gaaacctata tttcaatact gctgaaacag acatgaaata aagaatttaa 960
agaatgattt tgtttggttt tatttttccc aacatttat tttcaaaagt ctgaaaccta 1020
gggtaaagtt gaaaaatagt acaaagaacc actctgtacc ctgcttagaa tcgccagttg 1080
ttaacatttt gcatatttgc tttccttctc tctttgtttt cttttctct gaaacatctg 1140
agagtaagtt ggcagatatc atgacatgtc acttctttaa aacttcagca acgtttttcc 1200
tatgaacaag acattctcca aataactaca ataccattat tacaaccca agacacttag 1260
tattaaatat acttaatctt tttcattatt aataggagtc cttattccaa ttttttcatg 1320
tttccccagt aatagtcttc ataactactt tattttgat ccaggattca aagatcaaac 1380
attgccttct gttatcattt ctatttaggt ttcacttaaa tgagagagtt cttttgcttt 1440
```

```
ctttctcttt tgtaataacc ttgacatttt ttgaaagagt aattaggaac aagttgtttt 1500
acagaatgac ccttaatctg gaatttgttt tatctaatga ttttctcatt cttagattca 1560
gattaaacag ttttggtggt tgtgtccttc acactataaa acatcaacag gcatatgata 1620
tcagtttgcc ctgttattgg tgatattaaa tttgatgaat ttagtaaggt agtgtcaacc 1680
aaatctgtcc attttaaagg gatcc                                       1705
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<210> 323
<211> 1691
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2078240CB1

<400> 323
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ctgcaggaat tcggcacgag caggagagag gaggtgctgc aagactctct ggtagaaaaa 60
tgaagagggt cctggtacta ctgcttgctg tggcatttgg acatgcttta gagagaggcc 120
gggattatga aaagaataaa gtctgcaagg aattctccca tctgggaaag gaggacttca 180
catctctgtc actagtcctg tacagtagaa aatttcccag tggcacgttt gaacaggtca 240
gccaacttgt gaaggaagtt gtctccttga ccgaagcctg ctgtgcggaa ggggctgacc 300
ctgactgcta tgacaccagg acctcagcac tgtctgccaa gtcctgtgaa agtaattctc 360
cattccccgt tcacccaggc actgctgagt gctgcaccaa agagggcctg gaacgaaagc 420
tctgcatggc tgctctgaaa caccagccac aggaattccc tacctacgtg gaacccacaa 480
atgatgaaat ctgtgaggcg ttcaggaaag atccaaagga atatgctaat caatttatgt 540
gggaatattc cactaattac ggacaagctc ctctgtcact tttagtcagt tacaccaaga 600
gttatctttc tatggtaggg tcctgctgta cctctgcaag cccaactgta tgctttttga 660
aagagagact ccagcttaaa catttatcac ttctcaccac tctgtcaaat agagtctgct 720
cacaatatgc tgcttatggg gagaagaaat caaggctcag caatctcata aagttagccc 780
aaaaagtgcc tactgctgat ctggaggatg ttttgccact agctgaagat attactaaca 840
tcctctccaa atgctgtgag tctgcctctg aagattgcat ggccaaagag ctgcctgaac 900
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aagaaaaaac agccatggac gtttttgtgt gcacttactt catgccagct gcccaactcc 1020
ccgagcttcc agatgtagag ttgcccacaa acaaagatgt gtgtgatcca ggaaacacca 1080
aagtcatgga taagtataca tttgaactaa gcagaaggac tcatcttccg gaagtattcc 1140
tcagtaaggt acttgagcca accctaaaaa gccttggtga atgctgtgat gttgaagact 1200
caactacctg ttttaatgct aagggccctc tactaaagaa ggaactatct tctttcattg 1260
acaagggaca agaactatgt gcagattatt cagaaaatac atttactgag tacaagaaaa 1320
aactggcaga gcgactaaaa gcaaaattgc ctgatgccac acccaaggaa ctggcaaagc 1380
tggttaacaa gcgctcagac tttgcctcca actgctgttc cataaactca cctcctcttt 1440
actgtgattc agagattgat gctgaattga agaatatcct gtagtcctga agcatgttta 1500
ttaactttga ccagagttgg agccacccag gggaatgatc tctgatgacc taacctaagc 1560
aaaaccactg agcttctggg aagacaacta ggatactttc tactttttct agctacaata 1620
tcttcataca atgacaagta tgatgatttg ctatcaaaat aaattgaaat ataatgcaaa 1680
ccataaaaaa a                                                      1691
```

<210> 324
<211> 1918
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1846226.con

<400> 324
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cggatccctg gcctagcgcg gcccaacctt tactccagag atcatggctg ccgaggatgt 120
ggtggcgact ggcgccgacc caagcgatct ggagagcggc gggctgctgc atgagatttt 180
cacgtcgccg ctcaacctgc tgctgcttgg cctctgcatc ttcctgctct acaagatcgt 240
gcgcggggac cagccggcgg ccagcggcga cagcgacgac gacgagccgc cccctctgcc 300
ccgcctcaag cggcgcgact tcacccccgc cgagctgcgg cgcttcgacg gcgtccagga 360
cccgcgcata ctcatggcca tcaacggcaa ggtgttcgat gtgaccaaag ccgcaaatt 420
ctacgggccc gaggggccgt atggggtctt tgctggaaga gatgcatcca ggggccttgc 480
cacattttgc ctggataagg aagcactgaa ggatgagtac gatgaccttt ctgacctcac 540
tgctgcccag caggagactc tgagtgactg ggagtctcag ttcactttca agtatcatca 600
cgtgggcaaa ctgctgaagg agggggagga gcccactgtg tactcagatg aggaagaacc 660
```

```
aaaagatgag agtgcccgga aaaatgatta aagcattcag tggaagtata tctatttttg 720
tattttgcaa aatcatttgt aacagtccac tctgtcttta aaacatagtg attacaatat 780
ttagaaagtt ttgagcactt gctataagtt tttaattaa catcactagt gacactaata 840
aaattaactt cttagaatgc atgatgtgt tgtgtgtcac aaatccagaa agtgaactgc 900
agtgctgtaa tacacatgtt aatactgttt ttcttctatc tgtagttagt acaggatgaa 960
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atcttaaatg tgcaccaaga gcaaaggatc aacttttagt catgatgttc tgtaaagaca 1080
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gcctaaaaac ctaaatatat gatgaagatt gtaggactgt cttcccaagc cccatgttca 1440
tggtgggggca atggttattt ggttatttta ctcaattggt tactctcatt tgaaatgagg 1500
gagggacata cagaatagga acaggtgttt gctctcctaa gagccttcat gcacacccct 1560
gaaccacgag gaaacagtac agtcgctagt caagtggttt ttaaagtaaa gtatattcat 1620
aaggtaacag ttattctgtt gttataaaac tatacccact gcaaaagtag tagtcaagtg 1680
tctaggtctt tgatattgct cttttggtta acactaagct taagtagact atacagttgt 1740
atgaatttgt aaaagtatat gaacacctag tgagatttca aacttgtaat tgtggttaaa 1800
tagtcattgt attttcttgt gaactgtgtt ttatgatttt acctcaaatc agaaaacaaa 1860
atgatgtgct ttggtcagtt aataaaaatg gttttacccca ctaaaaaaaa aaaaaagg   1918
```

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<210> 325
<211> 1571
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 185986CB1

<400> 325
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gctggtctct ggccattgcc acccctcttc ctccgactag tgcccatggg aatgttgctg 120
aaggcgagac caagccagac ccagacgtga ctgaacgctg ctcagatggc tggagctttg 180
atgctaccac cctggatgac aatggaacca tgctgttttt taaaggggag tttgtgtgga 240
agagtcacaa atgggaccgg gagttaatct cagagagatg gaagaatttc cccagccctg 300
tggatgctgc attccgtcaa ggtcacaaca gtgtctttct gatcaagggg gacaaagtct 360
gggtataccc tcctgaaaag aaggagaaag gatacccaaa gttgctccaa gatgaatttc 420
ctggaatccc atccccactg gatgcagctg tggaatgtca ccgtggagaa tgtcaagctg 480
aaggcgtcct cttcttccaa ggtgaccgcg agtggttctg ggacttggct acgggaacca 540
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gctactactg cttccagggt aaccaattcc tgcgcttcga ccctgtcagg ggagaggtgc 660
ctcccaggta cccgcgggat gtccgagact acttcatgcc ctgccctggc agaggccatg 720
gacacaggaa tgggactggc catgggaaca gtacccacca tggccctgag tatatgcgct 780
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gtgatgtgga gaaactgaat gcagccaagg cccttccgca accccagaat gtgaccagtc 1380
tcctgggctg cactcactga ggggccttct gacatgagtc tggcctggcc ccacctccta 1440
gttcctcata ataaagacag attgcttctt cgcttctcac tgaggggcct tctgacatga 1500
gtctggcctg gccccacctc cccagtttct cataataaag acagattgct tcttcacttg 1560
aaaaaaaaaa a                                                       1571
```

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<210> 326
<211> 1952
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
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<223> Incyte ID No: 085596CB1

<400> 326
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aaaaggcgac gggatggcta ccttttccaa ttgctgcgga ttgctgatgc ccacttggac 180
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atagtgatcg gacaatgtaa ggtaatagct acaagacatt cccatgaatc tcaggacctc 360
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gatagtccgg tcctcataga tttctttgag gatactgagc gctacagaaa acaagccaac 480
aaagcccttg agaagtacaa agaggagaat gatgactttg cctctttcag agtggaccga 540
accgagagag ttgcaagagt gagaggaggg gaaggaactg gttacttcgt ggacttctct 600
gtgcggaact gccccagaca ccatttcccc agacacccca atgtctttgg attctgcaga 660
gcagatttgt tctatgatgt agaagccttg gacttggaaa gcccgaaaaa ccttgtcata 720
aactgtgaag tcttcgaccc tcaggaacat gagaacatca atggtgtacc gcctcatttg 780
ggacatccct tccactgggg tgggcatgag cgttcttcta ccaccaagcc tccattcaag 840
ccccatggat ctagagatca tcatcatccc cacaagccac acgaacatgg accccacct 900
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ttgcccatgt cctgctcaag ttgtcaacat gccacttttg gcacaaatgg ggcccaaaga 1020
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catccccatg gacaccaccc ccatggacac catcctcatg gacaccaccc ccatggacac 1200
catccccatg gacaccatcc ccactgccat gatttccaag actatggacc ttgtgaccca 1260
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aggcgaggcc caggtaaagg accctgtccc ttccattgca gacaaattgg atctgtgtac 1380
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gtctctgaat catgtccagg gaagttcaag agtgggtttc cacaagtttc catgttttttt 1560
acacatacat ttccaaaata aaatgtgatt cctttgaaga ggaaaatgaa taatacattg 1620
aattagaaac ataaataaaa tgaccagtaa ttgtgaaaat tacagttctt ttcaacctac 1680
tttcatactg aagatgcagc aaaatgtgaa tgggaaaaga gatggcctga gaagagagat 1740
caaatggaaa ggagaggaaa gaactcagtg ctgcctatta gtagttaatt ctgtcactca 1800
ccactacatc acttgagaca aatctatgcc actcagaatc tccttctttc ctggacttaa 1860
ctctaattct agagtctctg ttactgcttg ggctatacct gggcatacta ataaagtatg 1920
gtattgaaac tattgttaaa aaaaaaaaa aa                                1952
```

<210> 327
<211> 1686
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1544305CB1

<400> 327
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acacatagag gagagagaaa atggctgagt taaagtacat ttctggattt gggaatgagt 180
gttcttcaga ggatcctcgc tgcccaggtt ccctgccaga aggacagaat aatcctcagg 240
tctgcccta caatctctat gctgagcagc tctcaggatc ggctttcact tgtccacgga 300
gcaccaataa gagaagctgg ctgtatagga ttctaccttc agtttctcac aagccctttg 360
aatccattga cgaaggccat gtcactcaca actgggatga agttgatcct gatcctaacc 420
agcttagatg gaaaccattt gagattccaa aagcatctca gaagaaagta gactttgtga 480
gtggcctgca taccttgtgt ggagctggag acataaagtc taacaatggg cttgctatcc 540
acattttcct ctgcaatacc tccatggaga acagatgctt ttacaattca gatggggact 600
tcttgattgt tccgcagaaa gggaaccttc tcatttacac cgagtttggc aagatgcttg 660
tacagcccaa tgagatctgc gtcattcaga gaggaatgcg gttcagcata gatgtctttg 720
aggagaccag gggctacatc ttggaggtct atggtgtcca cttttgagtta cctgaccttg 780
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acccatccat tttcacagta ttgactgcta agtctgtccg ccctggagtg gccattgctg 1080
attttgtcat cttcccacct cgatggggggg ttgctgataa gaccttcagg cctccttatt 1140
accataggaa ctgcatgagt gagttcatgg gactcatccg aggtcactat gaggcaaagc 1200
```

```
aaggtgggtt cctgccaggg ggagggagtc tacacagcac aatgacccccc catggacctg 1260
atgctgactg ctttgagaag gccagcaagg tcaagctggc acctgagagg attgccgatg 1320
gcaccatggc atttatgttt gaatcatctt taagtctggc ggtcacaaag tggggactca 1380
aggcctccag gtgtttggat gagaactacc acaagtgctg ggagccactc aagagccact 1440
tcactcccaa ctccaggaac ccagcagaac ctaattgaga ctggaacatt gctaccataa 1500
ttaagagtag atttgtgaag atttcttcag aatctcatgc tttctggtag tattggagga 1560
gggggttggt taaaatgaaa attcactttt catagtcaag taactcagaa cttttatgga 1620
aacgcatttg caaagttcta tggctgtcac cttaattact caataaactt gctggtgttc 1680
tgtgga                                                           1686
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<210> 328
<211> 1273
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 149832CB1

<400> 328
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tgcagggtca ctccctggct tctggaggaa agagaaggag ggcagtgctc cagtggtaca 180
gaagtgagac ataatggaat caggcttcac ctccaaggac acctatctaa gccatttaa 240
ccctcgggat tacctagaaa aatattacaa gtttggttct aggcactctg cagaaagcca 300
gattcttaag caccttctga aaaatctttt caagatattc tgcctagacg gtgtgaaggg 360
agacctgctg attgacatcg gctctggccc cactatctat cagctcctct ctgcttgtga 420
atcctttaag gagatcgtcg tcactgacta ctcagaccag aacctgcagg agctggagaa 480
gtggctgaag aaagagccag aggcctttga ctggtcccca gtggtgacct atgtgtgtga 540
tcttgaaggg aacagagtca agggtccaga gaaggaggag aagttgagac aggcggtcaa 600
gcaggtgctg aagtgtgatg tgactcagag ccagccactg ggggccgtcc ccttacccccc 660
ggctgactgc gtgctcagca cactgtgtct ggatgccgcc tgcccagacc tccccaccta 720
ctgcagggcg ctcaggaacc tcggcagcct actgaagcca gggggcttcc tggtgatcat 780
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<222> 697
<223> a, t, c, g, or other

<400> 346
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<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1881237CB1

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<210> 356
<211> 2439
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3669695CB1

<220>
<221> unsure
<222> 6
<223> a, t, c, g, or other

<400> 356
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<210> 357
<211> 1630
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2776408CB1

<400> 357
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<210> 358
<211> 2520
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1330674.con

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<210> 359
<211> 2707
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2377834.con

<400> 359
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<210> 360
<211> 1364
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1307376CB1

<400> 360
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<210> 361
<211> 1245
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 4166960CB1

<400> 361
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<210> 362
<211> 6129
<212> DNA
<213> Homo sapiens

<220>
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<222> 4700-4720
<223> a, t, c, g, or other

<400> 362
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<210> 363
<211> 1882
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2383205.con

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<210> 364
<211> 963
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
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<212> DNA
<213> Homo sapiens
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<220>
<221> misc_feature
<223> Incyte ID No: 2088868CB1
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<210> 369
<211> 1720
<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 2068983.con

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gaccaactca tgcttcatgc tgatctcctg cctgatgttc ctgtctctga gccaaggaca 180
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<210> 370
<211> 1620
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 3526170CB1

<220>
<221> unsure
<222> 120
<223> a, t, c, g, or other

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taaaaaaatc cacacacaca aaaaaacctg cgcgtgaggg gggaggaaaa gcagggcctt 180
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<220>
<221> misc_feature
<223> Incyte ID No: 2068983.con

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<210> 370
<211> 1620
<212> DNA
<213> Homo sapiens

<220>
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<221> unsure
<222> 120
<223> a, t, c, g, or other

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agagtggcgc cagcttggtt ctcctgggca agaagaagaa gaaagaagag gagggggaag 1020

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<211> 960
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 5070239CB1

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<211> 654
<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 949518CB1

<220>
<221> unsure
<222> 9, 17, 52, 55, 58, 67, 79, 90
<223> a, t, c, g, or other

<400> 372
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catctcagtt cttttctcac cttgactgca agatgaaact ccttgtgcta gctgtgctgc 180
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aagctccata taacaaggca cacaagaacc tggacaccaa gaagtattgt cagagttgaa 600
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<211> 1479
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<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2085191.con

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aggcttgttc ttctgggcac agccatcacc ccaggagaca actccttgga gctgtccatt 180
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<210> 374
<211> 1047
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2792982.con

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<210> 375
<211> 2361
<212> DNA
<213> Homo sapiens

<220>
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<210> 384
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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 3107
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<213> Homo sapiens

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<223> Incyte ID No: 2963196.con

<220>
<221> unsure
<222> 2955, 3041-3042
<223> a, t, c, g, or other

<400> 386
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<212> DNA
<213> Homo sapiens

<220>
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<213> Homo sapiens

<220>
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<223> Incyte ID No: 1674985.con

<400> 388
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<211> 1928
<212> DNA
<213> Homo sapiens

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<221> unsure
<222> 1866
<223> a, t, c, g, or other

<400> 389
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<210> 390
<211> 376
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3317039.con

<400> 390
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<210> 391
<211> 2556
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2838551.con

<400> 391
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<210> 392
<211> 7016
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1477568.con

<220>
<221> unsure
<222> 3820, 4113, 4956
<223> a, t, c, g, or other

<400> 392
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<223> a, t, c, g, or other

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<213> Homo sapiens

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<223> Incyte ID No: 2153242.con

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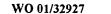
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<211> 2566
<212> DNA
<213> Homo sapiens

<220>
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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

<220>
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